

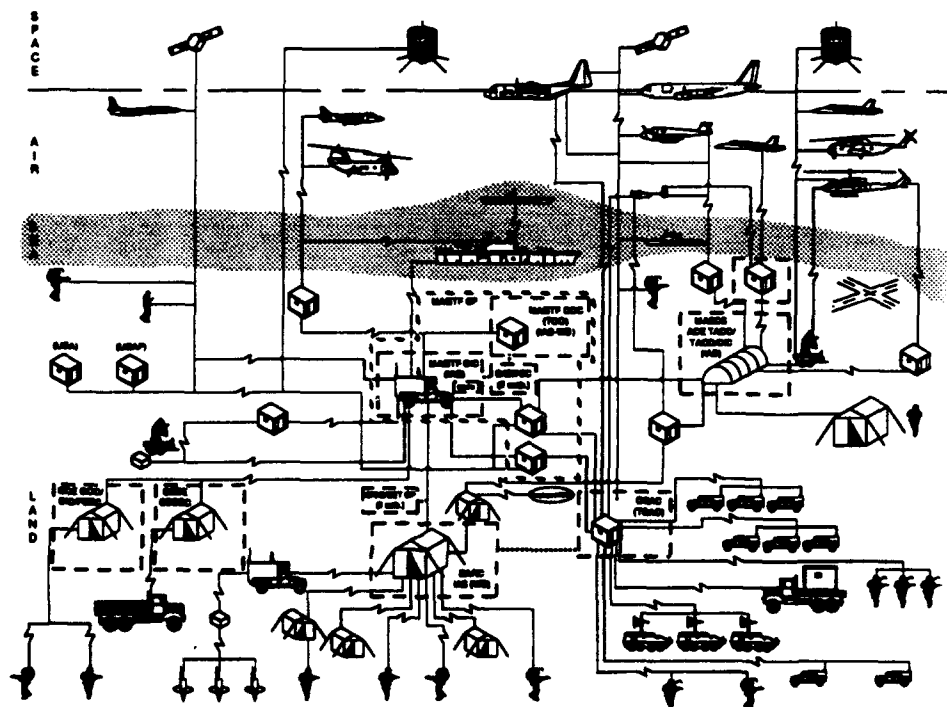
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COMMAND AND FUNCTIONAL ANALYSIS for the INTELLIGENCE SYSTEMS ARCHITECTURE ASSESSMENT



Marine Corps Research, Development, and Acquisition Command
WASHINGTON, DC 20380-0001

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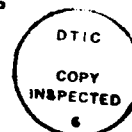
Subj: UNITED STATES MARINE CORPS INTELLIGENCE SYSTEMS
ARCHITECTURE, COMMAND AND FUNCTIONAL ASSESSMENT

1. The enclosed document is an assessment of the overall Marine Corps Intelligence Systems Architecture employed to support a Marine Air-Ground Task Force (MAGTF) during operations afloat and ashore. This assessment was a top-down review of the command and staff relationships and the functional Command, Control, Communications, and Intelligence (C3I) centers. The requirements of all intelligence systems and subsystems, to include signals intelligence (SIGINT) and electronic warfare (EW), that make up the MAGIS operating in a system high mode, were considered.

2. The next phase will be an assessment of the functional and communications architecture required to support MAGIS operating in a system high mode. This will be a comprehensive review of requirements, particularly the inter/intraoperability interfaces. The draft of the Phase Two assessment is scheduled for staffing in the Spring of 1992.

3. Phase Three of this effort is an ongoing assessment of emerging technology. This evaluation will allow the Marine Corps intelligence community to establish and maintain a total systems approach to the future development and acquisition of intelligence equipment.

4. The Point of Contact for this document and Phases Two or Three is LtCol Paul Leon, (AV) 278-2581.



RWB
R.W. Bates
By Direction

Statement A per telecon Ltc Paul Leon
Marine Corps Systems Center/C2I
Quantico, VA 22134-5080

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CG 4TH MARDIV (G2)	2
CG 4TH MAW (G2)	2
CO NMITC (MC ADMIN DET)	3
CO MCTSSA (CISD)	2
CO MCOTEA	2

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June 13, 1991

Commanding General
Marine Corps Research, Development,
and Acquisition Command
Code C2I
Washington, DC 20380-0001

Attention: Col J.A. Bicknas

Subject: Marine Corps Intelligence Systems Architecture Assessment, Command and
Functional Analysis

Reference: (a) Contract M00027-87-C-0074
(b) TTD C90-17

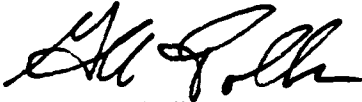
Dear Sir:

ARC Professional Services Group is pleased to provide the Marine Corps Intelligence Systems Architecture Assessment, Command and Functional Analysis as required by paragraph 1.1 of the Statement of Work and in accordance with the references.

If you have any questions, please feel free to contact me at (703) 221-3924.

Very truly yours,

ARC Professional Services Group



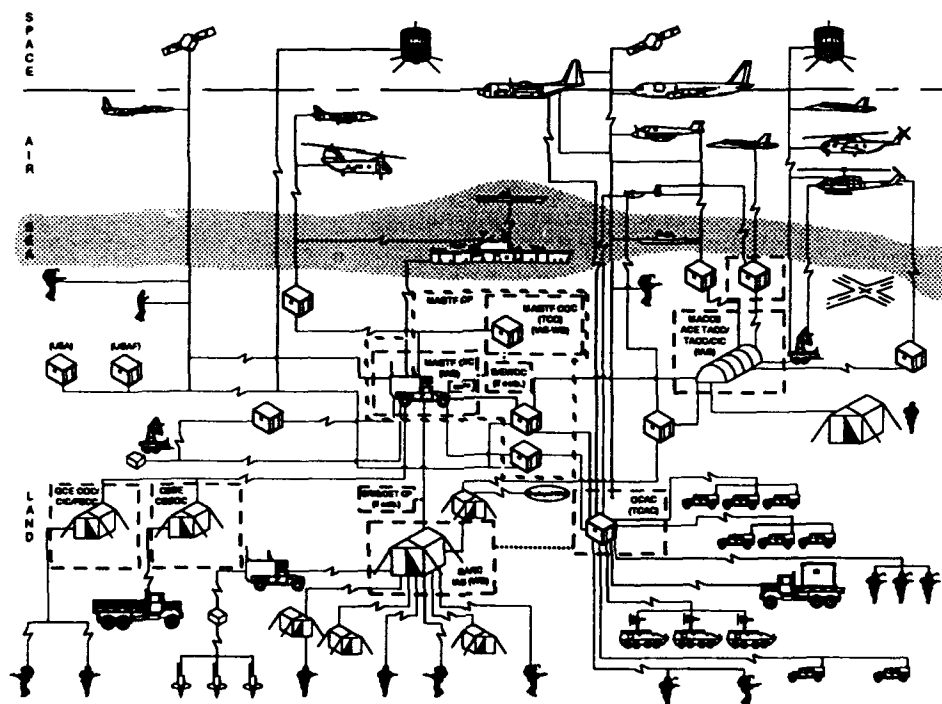
George A. Pollin
Program Manager

Enclosure: Marine Corps Intelligence Systems Architecture Assessment, Command and
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COMMAND AND FUNCTIONAL ANALYSIS

for the

INTELLIGENCE SYSTEMS ARCHITECTURE ASSESSMENT



**Marine Corps Research, Development, and Acquisition Command
WASHINGTON, DC 20380-0001**

JUNE 1991

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Acronym List

MARINE CORPS INTELLIGENCE SYSTEMS ARCHITECTURE (ISA) ASSESSMENT
COMMAND AND FUNCTIONAL ANALYSIS
EXECUTIVE SUMMARY

PURPOSE. The purpose of the ISA Command and Functional Analysis is to depict the functional architecture of the various assets employed to provide intelligence, surveillance, reconnaissance, electronic warfare, and related support to the Marine Air-Ground Task Force (MAGTF). In addition, the Command and Functional Analysis provides the necessary framework for the follow-on ISA Information Transfer Analysis.

SCOPE. The Command and Functional Analysis is a compilation of the current and emerging Marine Air-Ground Intelligence System (MAGIS) architecture within the context of current force structure and associated units of the Fleet Marine Force (FMF). This analysis involved a complete review of the command and staff relationships of the organic surveillance, reconnaissance, intelligence, electronic warfare and related assets of a typical Marine Expeditionary Force (MEF), Marine Expeditionary Brigade (MEB), and Marine Expeditionary Unit (MEU) with respect to the various Command, Control, Communications, and Intelligence (C³I) centers established afloat and ashore. These relationships and functional activities were analyzed and structured in accordance with the doctrinal precepts of Fleet Marine Force Manual (FMFM) 3-1, Command and Staff Action. The Command and Functional Analysis was prepared in a manner that makes it possible to publish tab changes without reissuing the entire document. Updates, changes, or corrections on one tab or section will not necessarily affect another tab or section.

OBJECTIVES. The objectives of the Command and Functional Analysis are to:

- Review and define the current command and staff functional relationships of the organic assets available within the FMF to conduct surveillance, reconnaissance, intelligence, and electronic warfare operations. These operations were affected by the recent force structure changes and the establishment of the Surveillance, Reconnaissance, and Intelligence Group (SRIG) in each MEF.

- Review and define the mission, purpose, establishment, and functions of each C³I center established within a MAGTF to conduct both amphibious operations and subsequent operations ashore.
- Develop appropriate visual aids and diagrams to clearly display the command and staff relationships, C³I center relationships, the organic MAGTF intelligence information flow, and the Amphibious Task Force (ATF) and MAGTF C³I interfaces during operations afloat and ashore.

BACKGROUND. The Marine Corps Tactical Command and Control System (MTACCS) is the approved operational concept to provide MAGTF commanders with an integrated capability to receive, process, display, store, and disseminate essential information and intelligence. The MTACCS conceptual architecture is designed to achieve maximum interoperability and selective system automation of all the Command, Control, Communications, Computers, Intelligence and Interoperability (C⁴I²) functions of a MAGTF. MAGIS is the intelligence subset of the overall MTACCS concept and is the "umbrella" term that encompasses the full integration of equipment, systems, procedures, personnel, and units required to provide tailored all-source intelligence, intelligence-related, and electronic warfare support to MAGTF elements.

In 1988, the Marine Corps implemented a restructuring and consolidation of selected organic MAGIS assets within the FMF and created an SRIG in each MEF. The consolidation of these assets were intended to improve the overall capability to plan and execute MAGTF intelligence, intelligence-related, and designated special purpose operations. The prevailing thought and direction during the implementation of the SRIG concept of operations was that the SRIG commander or SRIG detachment commander was responsible for the organization, administration, training, equipping, logistics, and embarkation of assigned units, while the operational employment of SRIG assets would be planned and directed by the MAGTF Command Element (CE) through the MAGTF general staff. The actual implementation of this concept of operations and the subsequent preparation of a viable SRIG doctrinal publication has been ongoing continuously for over 2 years because of its broad scope and complicated technical detail.

The establishment of the SRIG and the determination of how to provide optimum intelligence support to MAGTF elements have resulted in a state of bureaucratic inertia within the Marine Corps

intelligence community. This situation prompted the Deputy Program Manager (DPM), Intelligence Systems, Marine Corps Research, Development, and Acquisition Command (MCRDAC) to initiate the ISA assessment in order to provide a documented intelligence structure to defend and justify the research, development, and acquisition of future intelligence and intelligence-related programs.

During the conduct of this analysis, FMFM 3-1 was recognized as the preeminent doctrinal publication. A review of other available doctrinal publications revealed a number of conflicting and outdated policies. As a result of this review and the stand-up of the SRIGs, the command and staff relationships, intelligence tasking flows, and specific systems depicted in this analysis may not be in accordance with specific doctrinal publications or the prevailing opinions of individuals within the Marine Corps intelligence community. However, this analysis provides a recommended common reference point to review and analyze the overall command, staff, and functional structure of MAGTF assets and the intelligence and intelligence-related systems used to support MAGTF operations.

DISCUSSION. The Command and Functional Analysis commenced with the identification of current command and staff relationship issues concerning the intelligence and intelligence-related assets/units and activities of the Marine Corps since establishment of the SRIGs within each MEF. Many of these are emotionally charged issues within the Marine Corps intelligence community, and opinions vary widely.

Prior to establishment of the SRIG, the various battalions, companies, platoons, detachments, or teams that performed reconnaissance, surveillance, electronic warfare, communications, and other specialized tasks were individually identified on the MAGTF task organization and attached to the MAGTF CE for operations. The MAGTF CE staff had to task each individual detachment or team through the detachment commander or Officer In Charge (OIC) who would be directly responsible to the MAGTF commander for implementation of the plan and operational execution of the mission. The official chain of command went directly from the detachment commander or OIC to the MAGTF commander.

However, most MAGTF commanders could not possibly deal directly with the commanders of the Ground Combat Element (GCE), Air Combat Element (ACE), and Combat Service Support Element (CSSE) as well as up to 10 other subordinate detachment commanders or OICs (some of

whom were lieutenants or captains). Accordingly, the MAGTF commander violated basic command relationships by placing various independent detachments or teams under the direct supervision of the functional MAGTF G/S-2, G/S-3, or G-6/Communications Electronics Officer (CEO) staff officer. This assignment led to a situation where a MAGTF staff officer was placed in a position of being a pseudo-commander of operational units.

Some MAGTF staff officers were able to balance the responsibilities of both commander and staff officer with great success. In many cases, the emphasis of the individual staff officer (i.e., command functions versus staff functions) was based on the personality of the officer. Official "responsibility" for the success or failure of the unit's mission was still borne by the detachment commander or OIC who was placed in a professional dilemma. The detachment commander or OIC was "responsible" by chain of command for everything his unit did or failed to do. However, a MAGTF CE staff officer directed the operational employment of his assets as if the staff officer were the overall commander.

The staff officer had the best of both worlds. He could "command" these units, yet have nothing to do with administration, training, logistics, health and welfare of the unit. The establishment of the SRIG and the current concept of operations aligns the command responsibility for the administration, training, and equipping of SRIG assets. This organization partially solves the problem but falls short in the operational implementation of plans and the execution of assigned missions and official responsibility for mission success or failure.

Using a strict interpretation of FMFM 3-1 concerning the chain of command versus staff actions and cognizance over functional activities, these various issues were analyzed and compiled in this Command and Functional Analysis. Notional MAGTF structures were established and operational elements were identified as either supported or supporting commands/units. The SRIG was treated as a predominantly supporting element of the MAGTF that is functionally oriented to C³I and other intelligence-related activities, somewhat analogous to the supporting role of the MAGTF CSSE, which is functionally oriented to logistics. MAGTF CE command and staff relationships with the SRIG were determined to be identical to the GCE, the ACE, and the CSSE.

The Command and Functional Analysis also included those C³I and other intelligence-related activities that are planned and executed by the GCE, ACE, or CSSE. These assets can provide a

valuable contribution to the overall C³I and other intelligence-related efforts of the MAGTF. The most significant finding was the apparent preoccupation of the MAGTF CE staff with the SRIG C³I and related activities over the same type of activities conducted by other MAGTF elements, particularly those assets organic to the ACE. The MAGTF ACE has some of the most demanding and time-sensitive intelligence requirements of the MAGTF and employs some of the most productive intelligence collection and processing assets in the force. Nevertheless, the MAGTF ACE does not formally establish an ACE Combat Intelligence Center (CIC) to coordinate air intelligence activities, and the MAGTF CE intelligence staff is primarily oriented towards the intelligence requirements of the GCE. Currently, a de facto ACE CIC is formed on an ad hoc basis and is virtually imbedded in the Tactical Air Command Center (TACC). It is not readily identified as the ACE CIC. Further, the sheer volume of intelligence information obtained by various ACE assets pertinent to the MAGTF CE, GCE, CSSE, and SRIG is generally retained within the confines of the TACC and not disseminated beyond the ACE. This information is not routinely included in the MAGTF CE process of producing fused intelligence for the entire force.

The MAGTF CE needs to broaden its intelligence focus and include all of the organic C³I and other intelligence-related assets throughout the MAGTF. Intelligence personnel assigned to the MAGTF CE need to learn how to orchestrate and coordinate the national, theater, and organic intelligence effort rather than trying to implement, execute, and directly supervise the various units/assets involved in supporting the MAGTF. The MAGTF CE has the authority and functional cognizance to assign primary or supplementary intelligence collection and reporting tasks to any intelligence or intelligence-related asset within or assigned to the GCE, ACE, CSSE, or SRIG. It is the responsibility of the respective commanders to implement and execute the operational missions required to satisfy the assigned intelligence collection and reporting tasks.

These principles of command and staff actions were then used in this analysis as the foundation for a review of the emerging doctrinal publications concerning MAGTF Intelligence Operations (FMFM 3-21), the establishment of the Surveillance, Reconnaissance, and Intelligence Group (OH 3-22), and the TRI-MEF Standing Operational Procedures for Field Intelligence Operations (FMFRP 3-28). Each publication was analyzed for consistency, accuracy, and functional compatibility within the framework of FMFM 3-1 and the overall MAGIS architecture.

The final portion of the Command and Functional Analysis involved the identification and review of selected C³I centers established during afloat operations and subsequent operations ashore. Pertinent information concerning each C³I center was extracted from doctrinal and procedural publications and an analysis was conducted to minimize overlapping functions and major inconsistencies. C³I center functional diagrams were developed and standardized. C³I center description brief sheets that included the primary and optional systems used to perform required functions within each C³I center were prepared. In those cases with major information gaps, a subjective statement was included based on compiled data.

CONCLUSIONS

- * The SRIG should be recognized and employed as a separate subordinate command of a MEF. The commanding officer should report operationally and administratively to the MEF Commanding General in the same manner as the Commander, Marine Air Wing (MAW); Commander, Marine Division (MarDiv); and Commander, Force Service Support Group (FSSG).
- * The SRIG and task-organized SRIG detachments have functionally created a fifth MAGTF element. This element should be generically designated as the MAGTF Surveillance, Reconnaissance, and Intelligence Element (SRIE). The SRIE designation would describe any task organized SRIG or SRIG detachment within a MAGTF.
- * As a supporting command, the SRIG is responsible for providing trained and equipped SRIG detachments to MEUs and MEBs and must operationally deploy as a total unit in support of a MEF in a manner similar to the FSSG.
- * Command and staff relationships remain consistent regardless of the size of the MAGTF. Therefore, a SRIG Detachment within a MEU or MEB size MAGTF is both operationally and administratively the same as the SRIG within the MEF. Traditional command and staff actions in accordance with FMFM 3-1 apply.
- * The SRIG or SRIG detachment commander has responsibilities concerning the communications, direct action, tactical deception, and fire support activities of subordinate units even though the SRIG title implies only intelligence-related matters. Accordingly, a subordinate SRIG

unit detachment commander or OIC should not be dual-hatted as the overall SRIG detachment commander.

- * The MAGTF CE staff must task and maintain functional cognizance over SRIG assets for required support in the same manner as the staff maintains functional cognizance over GCE, ACE, and CSSE assets. However, operational employment of SRIG assets should be implemented and executed under the command supervision of the responsible SRIG commander and designated SRIG subordinate commanders.

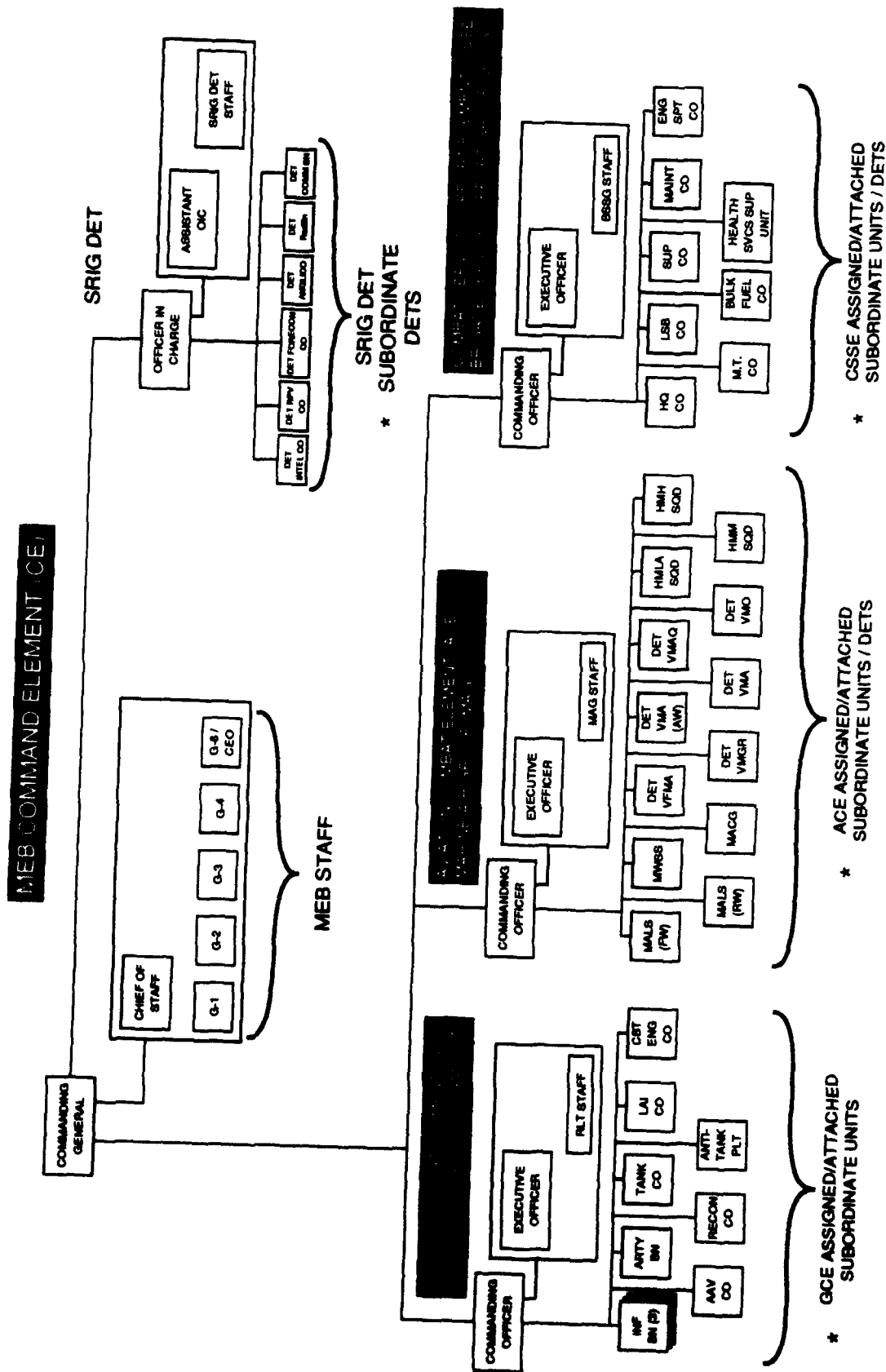
- * The MAGTF ACE should formally plan for and establish an ACE CIC that is collocated with the TACC. The ACE CIC would have the delegated responsibility of coordinating and implementing air intelligence requirements and related activities for the entire MAGTF.

Section One

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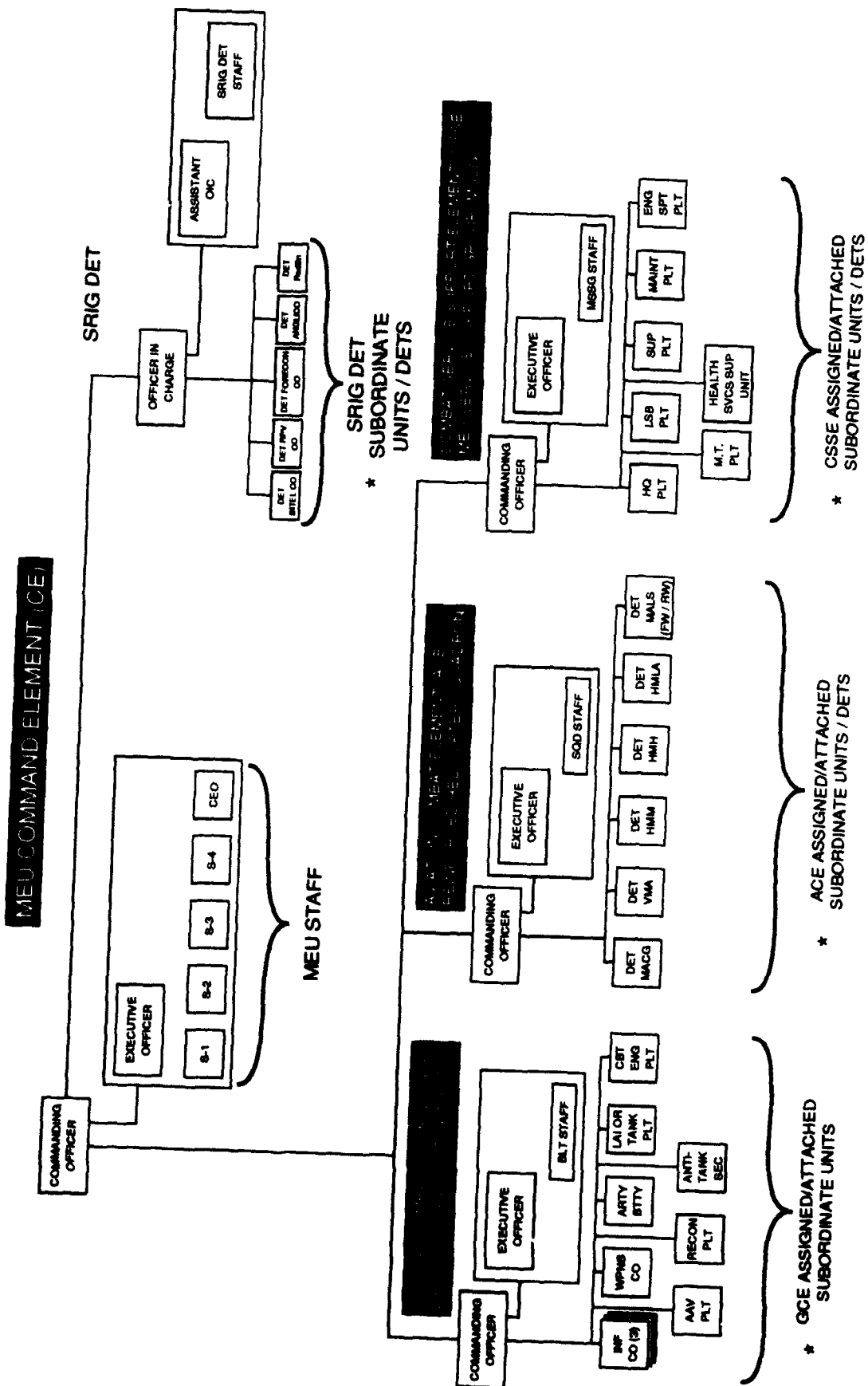
The purpose of this section is to convey the command relationships of notional MAGTFs (Tabs 1 - 4) in contrast with the staff cognizance over various functional activities within the MAGTF (Tabs 5 - 11). The term "staff cognizance" was limited to "the broad coordinating responsibilities over special staff sections assigned to a general or executive staff officer in his area of primary interest". Accordingly, staff officers exercised no command or supervisory authority over any unit within the MAGTF but were responsible for ensuring that functional procedures, methods, and techniques that fell under the purview of the specific staff section were being followed.

MEB COMMAND STRUCTURE

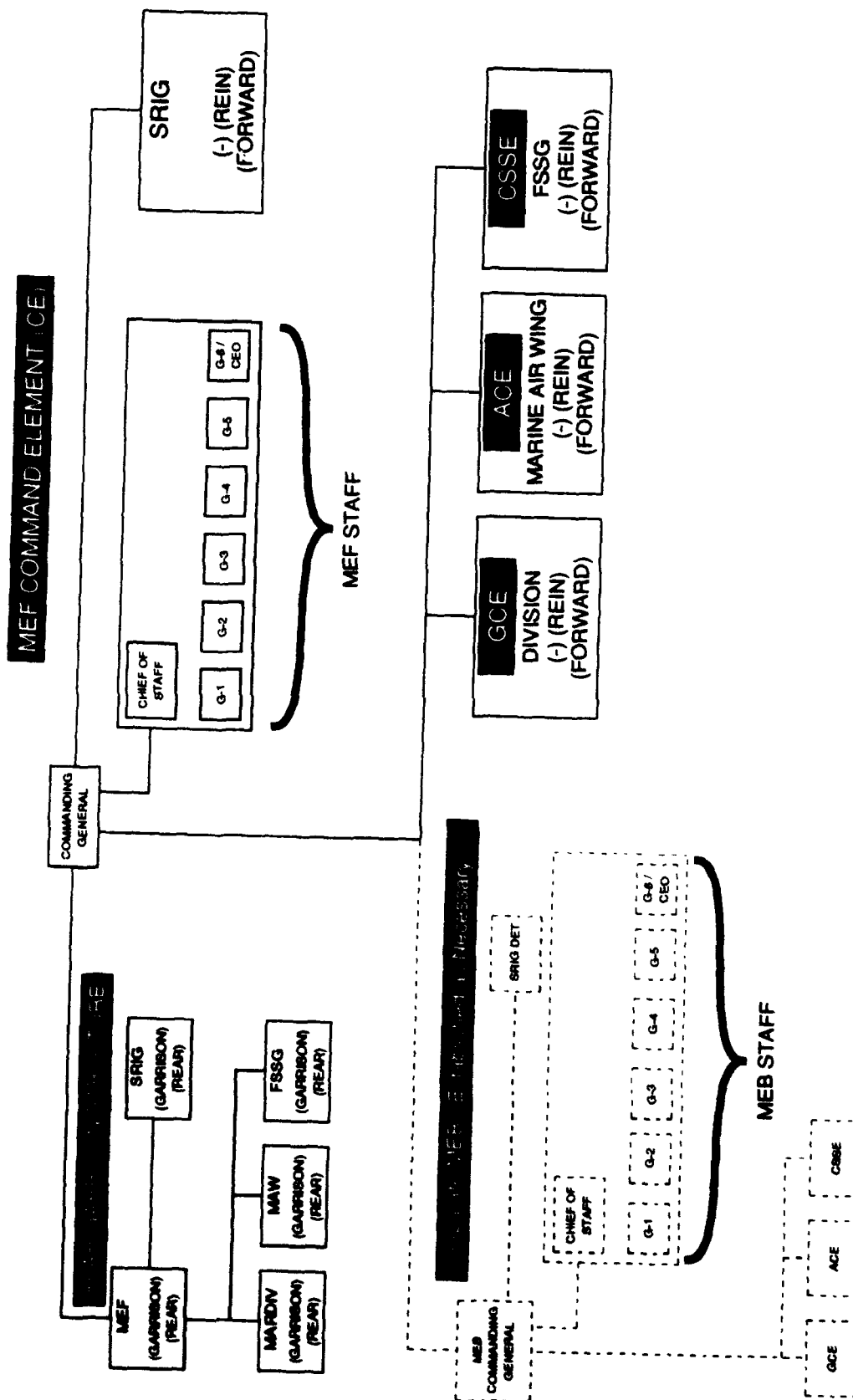


* ALL SUBORDINATE UNITS / DETS DEPLOY AS REQUIRED FOR MISSION.

MEU COMMAND STRUCTURE



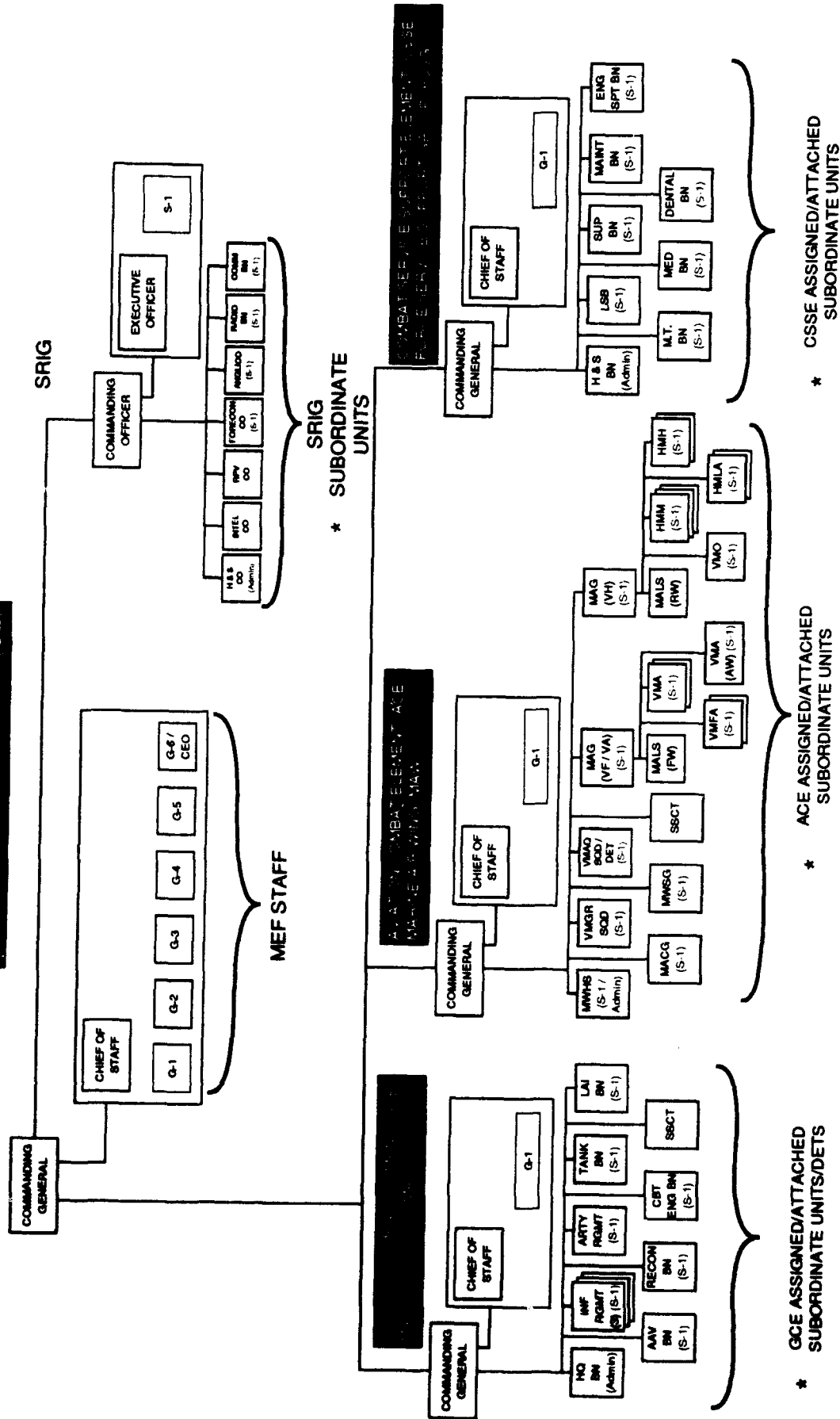
MEF ORGANIZATION FOR COMBAT



TAB 4.

MEF STAFF COGNIZANCE: ADMINISTRATION AND PERSONNEL MATTERS

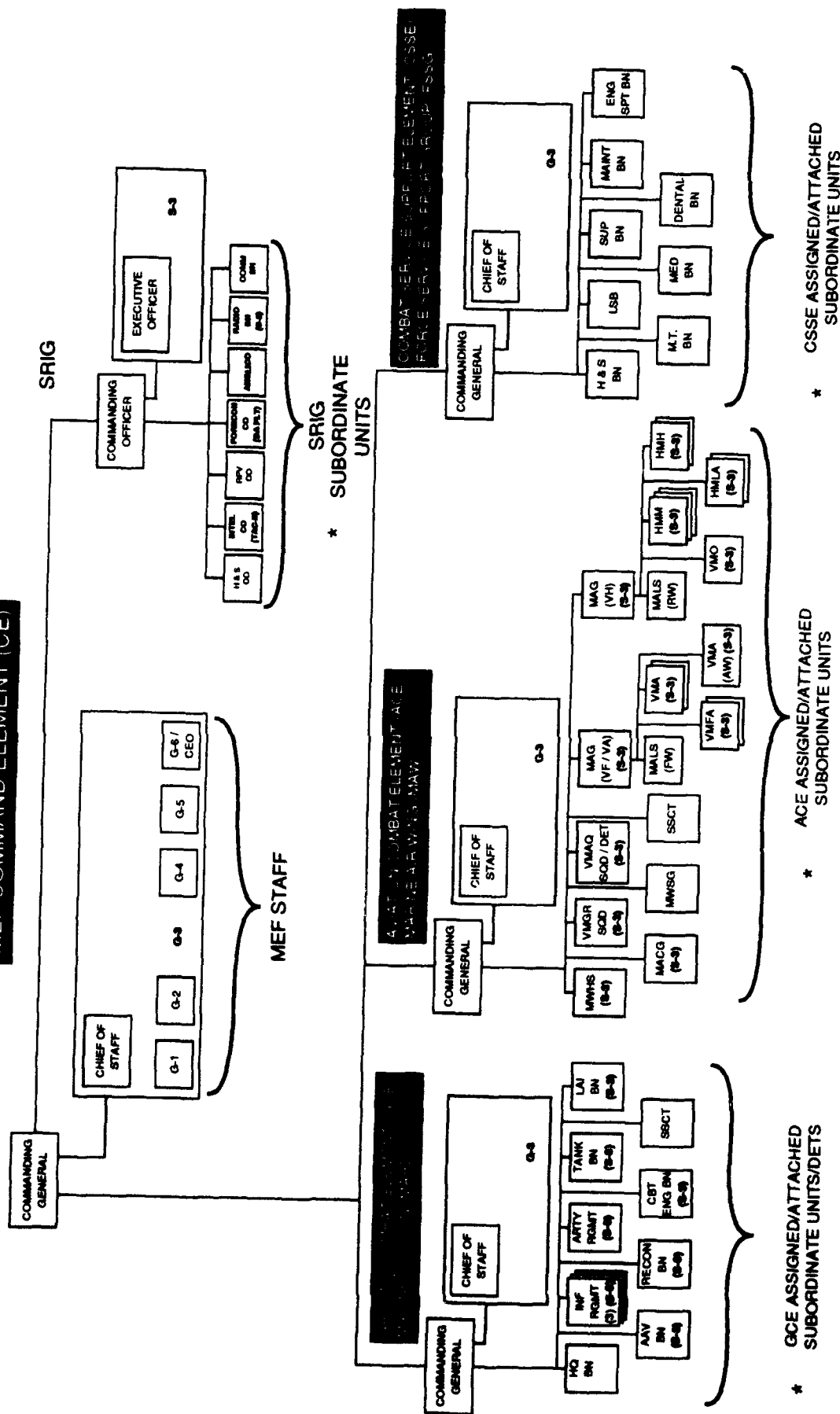
MEF COMMAND ELEMENT (CE)



* ALL SUBORDINATE UNITS / DETS DEPLOY AS REQUIRED FOR MISSION.

MEF STAFF COGNIZANCE: MAGTF OPERATIONS

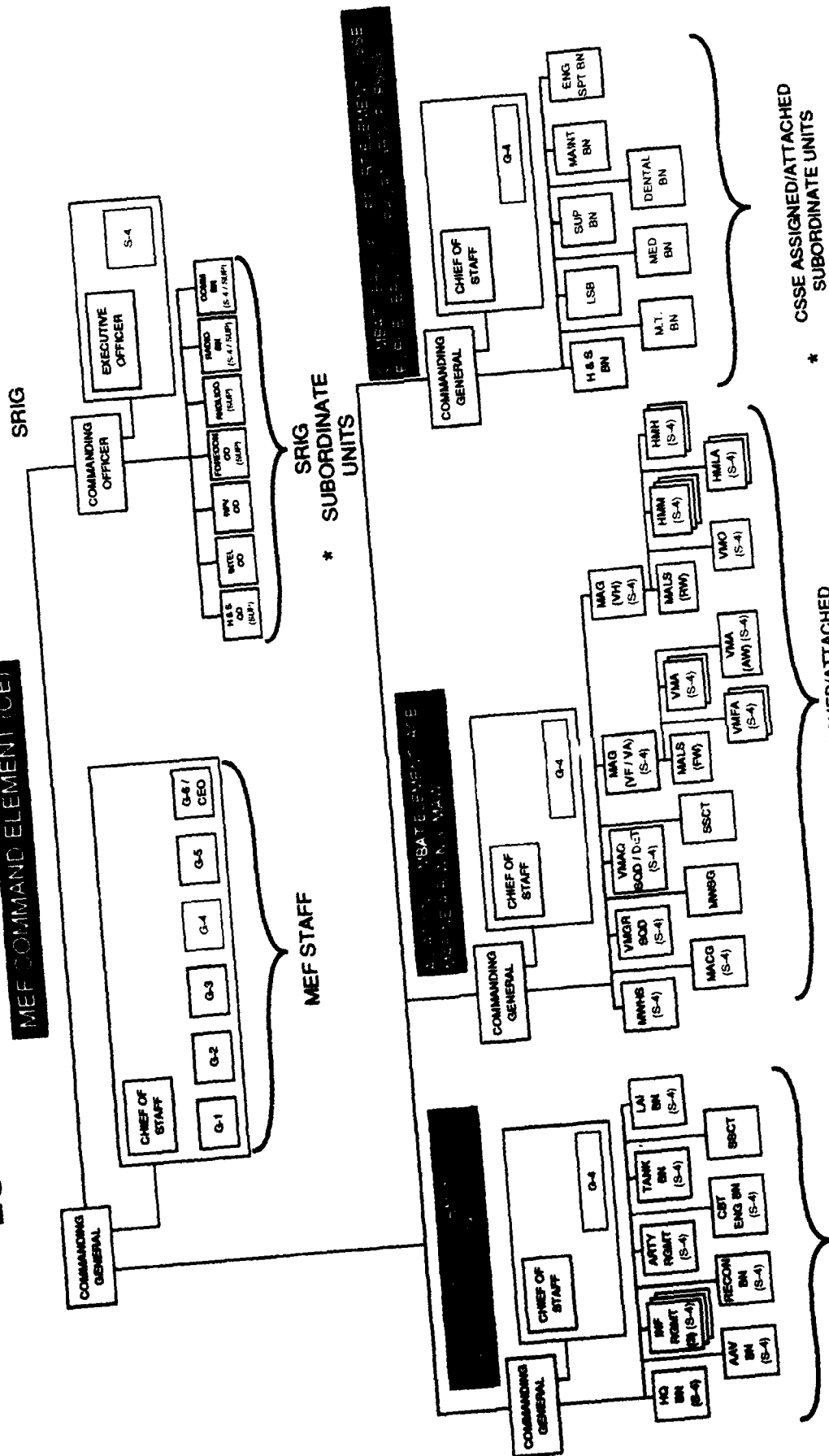
MEF COMMAND ELEMENT (CE)



* ALL SUBORDINATE UNITS / DETS DEPLOY AS REQUIRED FOR MISSION.

MEF STAFF COGNIZANCE: LOGISTICS / SUPPLY / EMBARKATION

MEF COMMAND ELEMENT (CE)



* GCE ASSIGNED/ATTACHED
SUBORDINATE UNITS/DETS

* ALL SUBORDINATE UNITS / DETS DEPLOY AS REQUIRED FOR MISSION.

TAB 7.

THE COMMAND ELEMENT OF

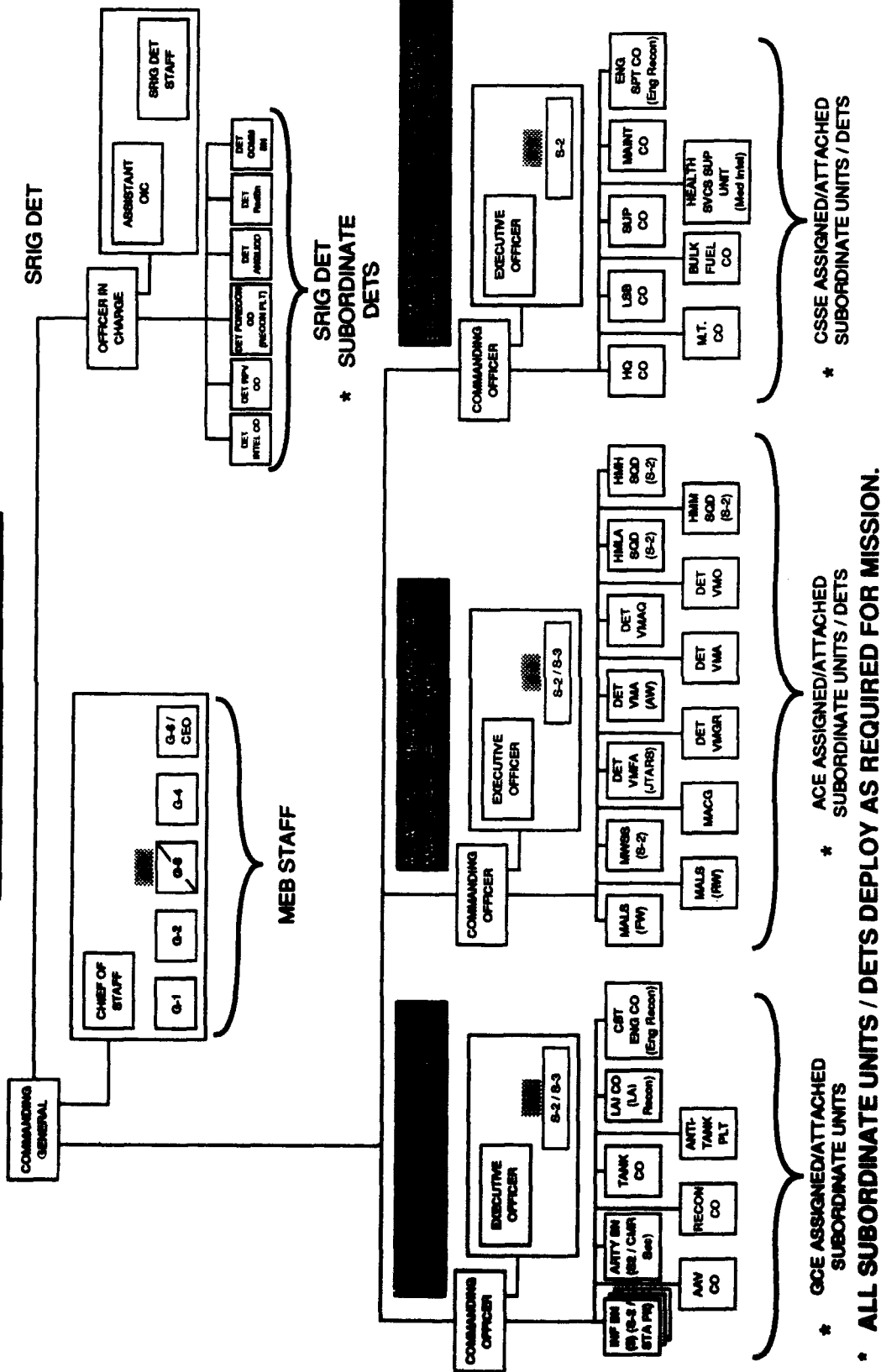


NEE COMMAND ELEMENT (CE)



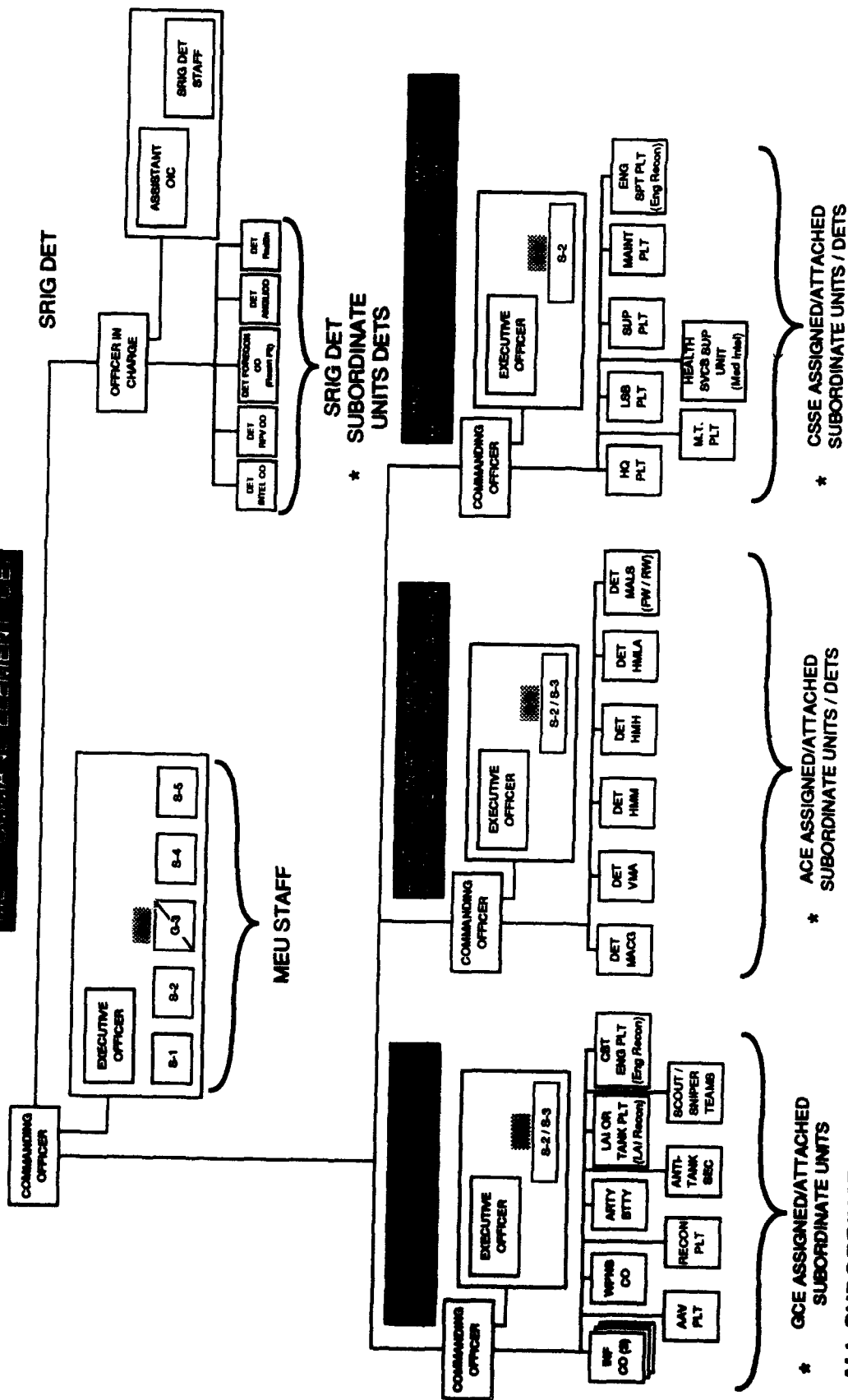
MEB STAFF COGNIZANCE: SURVEILLANCE, RECONNAISSANCE, INTELLIGENCE, AND ELECTRONIC WARFARE MATTERS

MEB COMMAND ELEMENT (CE)



MEU STAFF COGNIZANCE: SURVEILLANCE, RECONNAISSANCE, INTELLIGENCE, AND ELECTRONIC WARFARE MATTERS

MEU STAFF ELEMENT DET

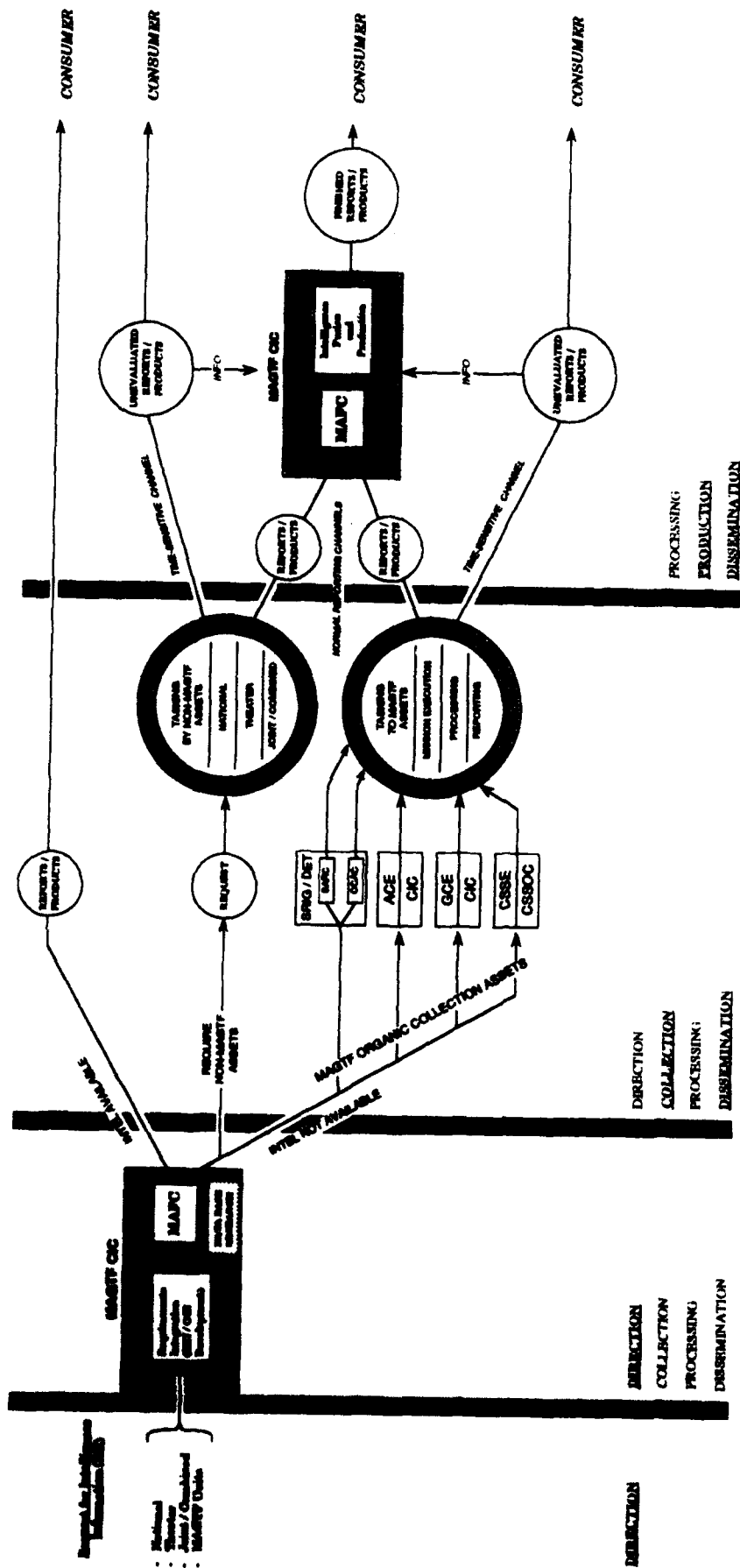


Section Two

Section Two is represented by blue Tabs numbered 12 - 26.

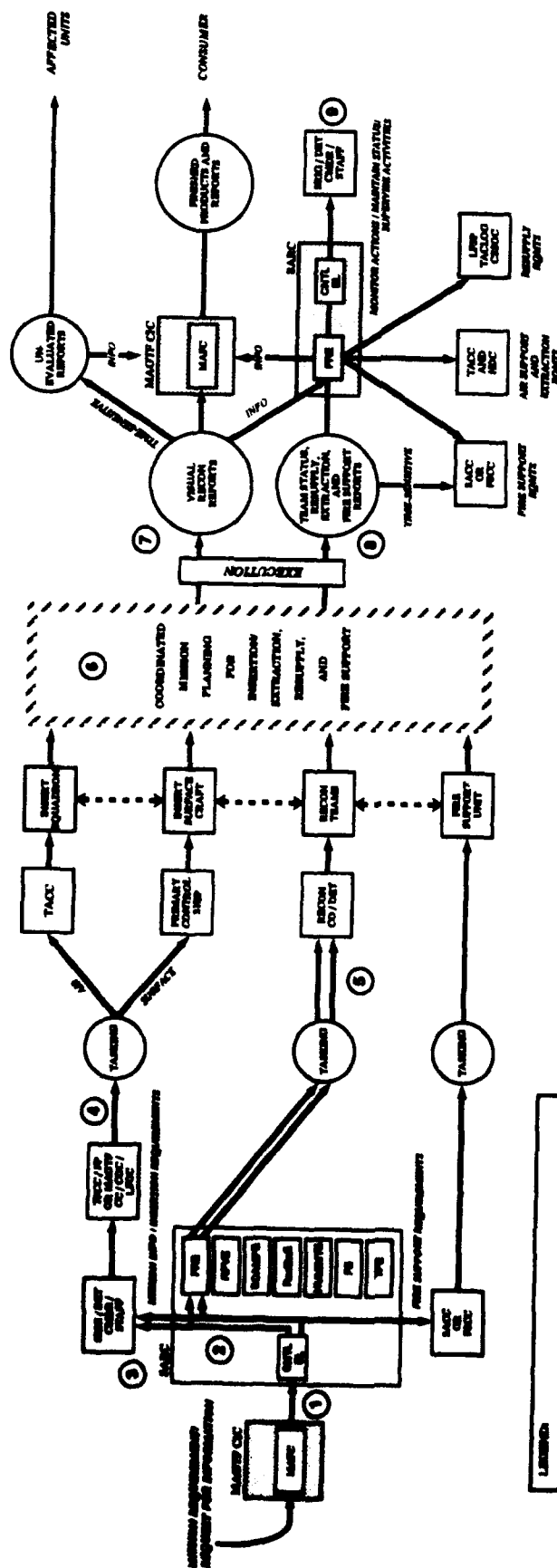
The purpose of this section is to convey the flow of intelligence cycle related activities along with the required operational employment and coordination activities of selected organic MAGTF intelligence and intelligence related units. Intelligence cycle related activities are primarily procedural and are specified by the cognizant G/S-2 staff officer at different levels within the MAGTF. Operational employment and coordination activities are primarily command related and are directed and supervised by the responsible unit commanders.

INTELLIGENCE FLOW WITHIN THE MAGTF



TAB 12.

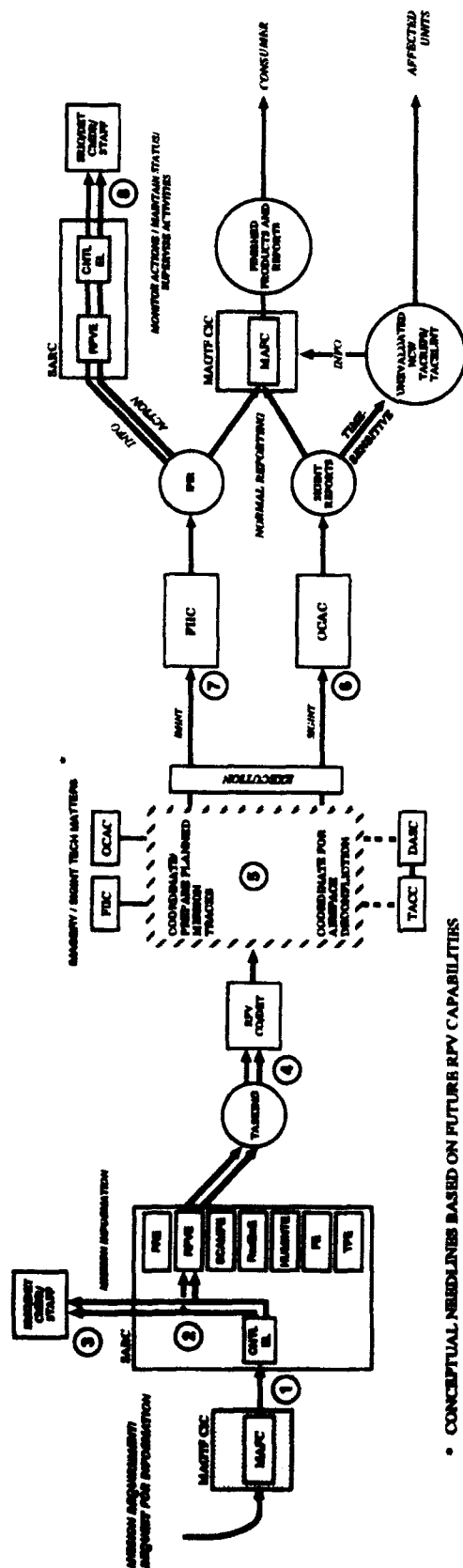
INTELLIGENCE CYCLE FOR SER/SRIG DETACHMENT ADVANCE FORCE OR PRE-ASSAULT GROUND RECONNAISSANCE OPERATIONS



- ① MAGTF G2 receives mission requirements for information, passes to MAJFC to prepare the EEI / OR and intelligence reporting outline, then directs requirement to the SARC for implementation.
- ② SARC Control Element (J2, J3) receives leading orders by unit, and submits Force Requirements company / detachment / team (FORCON Det / Team) to next mission. SARC ORL II, passes requirement with appropriate guidance to SARC Force Requirements Element (J2) for coordination of estimate of effort and issue of warning order to FORCON Det / Team. SARC discontinues future SACC or PBOC of supporting mission.
- ③ SNG / DET CASRT and staff receive mission requirement and prepared Courses of Action (COA) from SARC, redeploy/reverse COA, provides appropriate guidance and coordinate location requirements with TRGC / PP or LPOC or MAGTF CC / GOC as required.
- ④ TRGC / PP or LPOC or MAGTF CC / GOC leads appropriate air or surface units to provide required support to FORCON DET / TEAM location.
- ⑤ FORCON DET / TEAM / joint leader conducting mission prepare and issue operational order to team members.
- ⑥ FORCON DET / TEAM and supporting units shall detailed mission planning and preparations for insertion / extraction, resupply, and fire support. Mission is executed.
- ⑦ FORCON DET / TEAM are in place and provide visual reports as guided by EEI / OR to normal intelligence reporting request to MAGTF CAC / MAJFC for tasks into intelligence product. Time-sensitive unprocessed reports may be provided directly from team to affected MAGTF command or unit / Asset. SARC is provided information reports to keep abreast of FORCON / DET TEAM intelligence reporting.
- ⑧ FORCON DET / TEAM locations, activities, status, extraction, resupply, and fire support reports/requirements are reported to the SARC PFE. Time-sensitive fire support requirements may be conducted directly from team to SACC or PBOC for land, air, or ground fire support.
- ⑨ SNG / DET commander and staff monitor actions / activities and supervise or coordinate supporting actions for deployed FORCON / DET / TEAM as required.

TAB 13.

INTELLIGENCE CYCLE FOR SRIG/SRIG DETACHMENT RPV IMAGERY/SIGINT COLLECTION OPERATIONS



• CONCEPTUAL NEEDLINES BASED ON FUTURE RPV CAPABILITIES

- ① MAFC Co/Det receives mission requirements for information, passes to MAFC to prepare the EE/O/R and intelligence reporting elements, then directs requirements to the SRIG Co/Det for implementation.
- ② SRIG Co/Det (SRIG Co/Det) receives intelligence, makes log entry, and selects RPV Co/Det / detachment to perform mission. SRIG Co/Det (SRIG Co/Det) provides requirements with appropriate guidance to SRIG Co/Det (SRIG Co/Det) for development of RPV mission plan and basis of working order to RPV Co/Det.
- ③ SRIG Co/Det Co/Det and staff receives mission requirements and proposed mission plan from SRIG Co/Det, reviews / approves plan, provides coordination guidance if any.
- ④ RPV Co/Det / Det prepares mission unit, optimizes ground equipment, includes video, SIGINT, or imagery payload as required and prepares for RPV launch.
- ⑤ RPV Co/Det / Det coordinates payload unit / operations (SRIG Co/Det / Co/Det) and develops control agencies (TACC / DABSC) conduct coordination required and enables in implementing and execution of RPV mission.
- ⑥ SRIG Co/Det Co/Det and staff receives mission requirements and proposed mission plan from SRIG Co/Det, reviews / approves plan, provides coordination guidance if any.
- ⑦ SRIG Co/Det Co/Det and staff receives mission requirements and proposed mission plan from SRIG Co/Det, reviews / approves plan, provides coordination guidance if any.
- ⑧ SRIG Co/Det Co/Det and staff receives mission requirements and proposed mission plan from SRIG Co/Det, reviews / approves plan, provides coordination guidance if any.

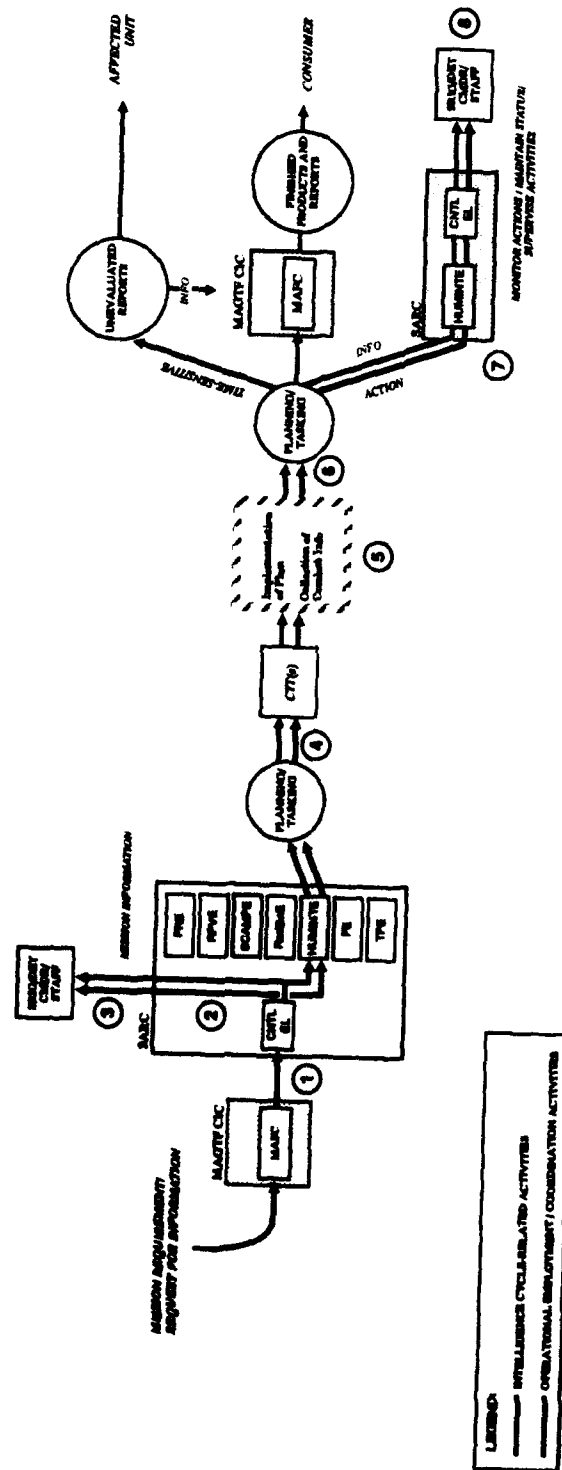
TAB 14.

[illegible]

- ① **MASTTF C4C** receives mission requirements / request for information, passes to MAJFC to prepare the EEE/OIR and intelligence reporting outline , then directs requirements to the Pacific OACG for implementation.
- ② **Pacific OACG** receives briefing, prepares Course of Action (COA), designates personnel for SARC Pacific Element (PacificE) cell, and tasks Pacific Reconnaissance Team (PRT) to conduct mission. OACG provides pertinent technical information and essential Reporting Instructions (RI) and debriefs PacificE and PRT to the SARC for mission execution.
- ③ **SARC** receives PRT mission task and oversees operational aspects of PRT mission (insertion, extraction, fire support, resupply, etc.). SARC PacificE coordinates with other SARC elements on PRT operational mission aspects and coordinates with SAGOC or POCG for the support requirements.
- ④ **SRPG / Det commander** and staff receive PRT mission requirement and proposed COAs from OACG, review / approve COA, provide commander's guidance to SARC and coordinate insertion requirements with TPDCG / PP or LPOC or MASTTF C4C / COC as appropriate.
- ⑤ **TPDCG / PP, LPOC, or MASTTF C4C / COC** tasks appropriate air or surface units to provide required support to PRT insertion.
- ⑥ **PRT** and supporting units finalize detailed mission planning and preparations for insertion / extraction, resupply, and fire support. Mission is executed.
- ⑦ **PRT** in place and provides SIGINT reports via normal PacificE reporting network as directed by SIGINT reporting instructions received from OACG. OACG submits further analysis of PRT reports and provides SIGINT reporting instructions to MAJFC for action into intelligence products. PRT may provide time-sensitive immediate SIGINT Non-Consented (NCM) C4C (MAJFC for action into intelligence products. PRT may provide time-sensitive immediate SIGINT Non-Consented (NCM) Tactical Reports (TACREP)s and supplementary visual reconnaissance reports as immediate threat warnings directly from PRT to affected MAJTF reports and/or assets as appropriate. SARC PacificE and Pacific OACG is provided information reports of all PRT reports issued and maintain technical coordination for SIGINT reports. PacificE / Pacific Det commander maintains cognizance of PRT activities through the OACG and / or SARC as necessary.
- ⑧ **PRT** locations, activities, status, extraction, resupply, and fire support reports / requirements are directed to the SARC for action. Time-sensitive fire support requirements may be conducted directly from PRT to SAGOC or PBOC for need, air, or ground fire support.
- ⑨ **SRPG / Det commander** and staff monitor PRT actions / activities and supervise or coordinate supporting actions for deployed PRT as required.

TAB 16.

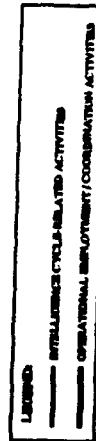
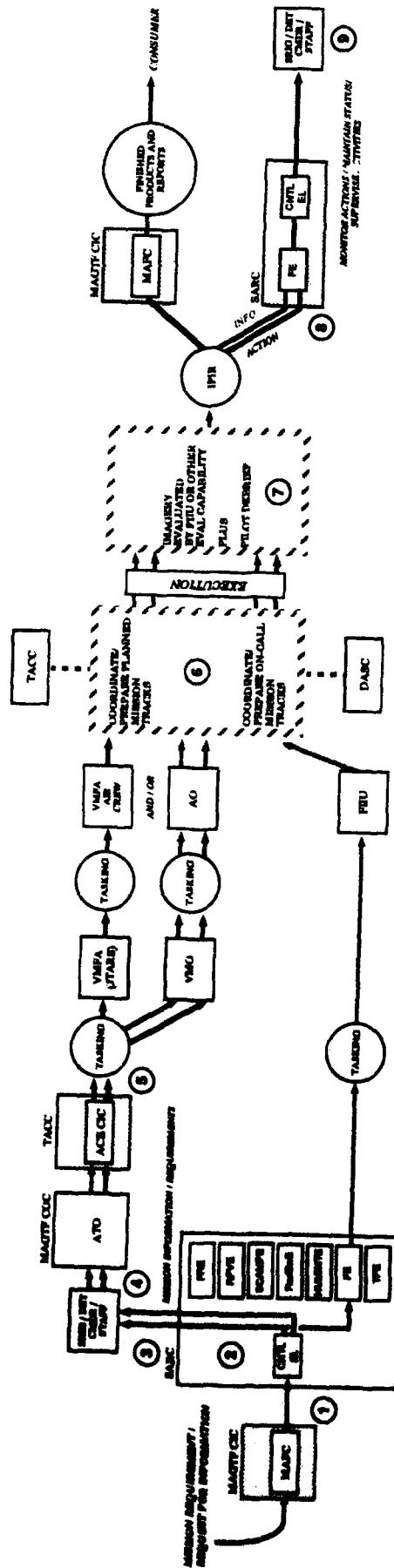
INTELLIGENCE CYCLE FOR SRIGSRIG DETACHMENT COUNTER-INTELLIGENCE OPERATIONS



- MAGTF CIC receives mission requirements/request for information, passes to MAJPC to prepare the EII / CIR and intelligence reporting criteria, then directs requirement to the SARC for implementation.
- SARC/CIC/IL receives mission, reviews by early and selects counter-intelligence Det / Team to perform mission. SARC/CIC/IL passes requirement with appropriate guidance to SARC/MAJPC Human Intelligence Element (HUMANITE) to develop Course of Action (COA) and issue warning order to CI Det / Team. SARC simultaneously informs SRIG / DET commander and staff of impending mission.
- SRIG / DET commander and staff receive mission requirements and proposed COAs from SARC, reviews / approves COA, provides appropriate guidance and coordinates any special mission requirements with other agencies as appropriate.
- CI Det / Team conducting mission prepares and issues operations order to team members as appropriate.
- CI Det / Team and any other supporting unit executes mission and conducts intelligence reporting as required.
- CI Det / Team is operational and provides reports as directed by EII / CIR to normal intelligence reporting network to MAGTF CIC / MAJPC for fusion into intelligence product. This includes unclassified reports they be provided directly from team to affected MAGTF ground or air unit / asset. SARC is provided information reports.
- Team locations, activities, status, extraction, resupply, and fire support reports / requirements are directed to the SARC for action.
- SRIG / DET commander and staff monitor action / activities and supervise or coordinate supporting actions for deployed team as required.
- CI Det / Team is operational and provides reports as directed by EII / CIR to normal intelligence reporting network to MAGTF CIC / MAJPC for fusion into intelligence product. This includes unclassified reports they be provided directly from team to affected MAGTF ground or air unit / asset. SARC is provided information reports.
- Team locations, activities, status, extraction, resupply, and fire support reports / requirements are directed to the SARC for action.
- SRIG / DET commander and staff monitor action / activities and supervise or coordinate supporting actions for deployed team as required.

TAB 17.

INTELLIGENCE CYCLE FOR ORGANIC IMINT COLLECTION

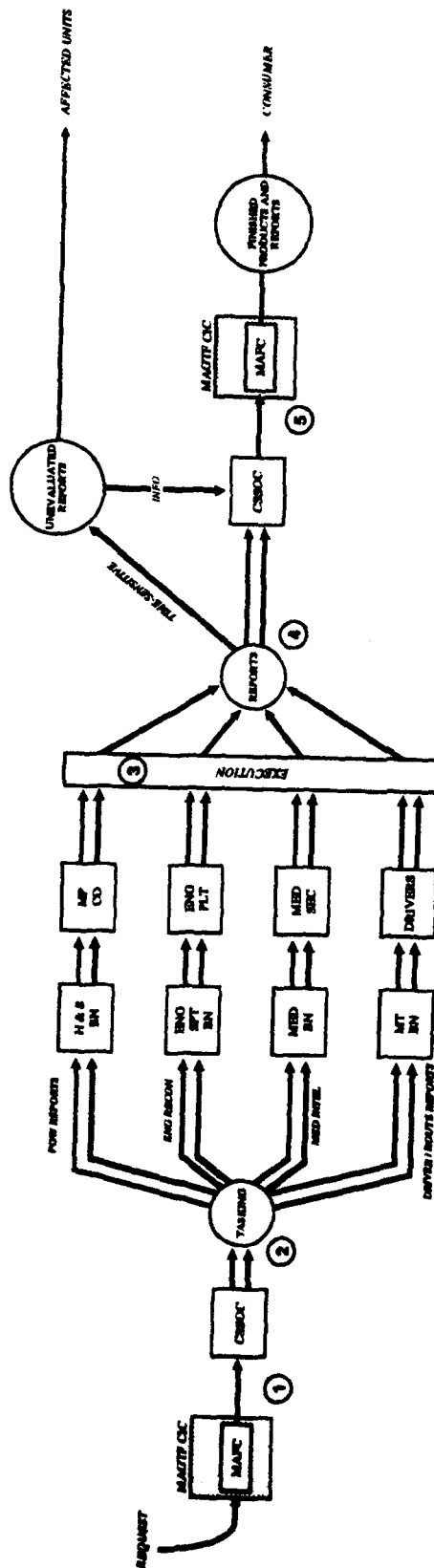


- ① MAUTG CIC receives mission requirements / request for information, passes to MAFC to prepare the EEI / OIR and intelligence reporting status, then directs requirement to the SARC for implementation.
- ② SARC Central Element (CENT EL) receives tasking, makes log entry, and passes requirement with appropriate guidance to SARC Force Intelligence Interpretation Element (FIE) for determination of plan of action and issue of specific tasking guidance to the FIU Det / team.
- ③ FIU Det commander and staff receive mission requirements and submit requirements to MAUTG CIC for JTARS-equipped elements at ACE.
- ④ MAUTG CIC prepares Air Tasking Order (ATO) and submits to TACC for action. ACE CIC requested to coordinate intelligence-specific actions at ACE.
- ⑤ TACC tasks VMA to conduct mission and VMA to make in aerial observe status to add target identification of imagery target, if required.
- ⑥ FIU Det / Team and supporting agencies coordinate imagery targets, mission tracks, and execute mission.
- ⑦ Imagery is obtained, interpreted, evaluated, and annotated by FIU along with pilot debrief of JTARS mission and / or NO screens.
- ⑧ FIU submit initial imagery interpretation report and imagery product via normal intelligence reporting network to MAUTG CIC / MAFC for fusion into intelligence product and dissemination as required. SARC is provided information status reports on amount of imagery reports / products and dissemination status.
- ⑨ SARC / DET commander and staff monitor actions / activities, maintain status, and supervise or coordinate supporting actions for FIU det / team as required.

TAB 19.

- ① **MAOTGF CIC receives mission requirements / request for information, passes to MAFC to prepare the EEI/ OIR and intelligence-reporting efforts, then requests GCE COC / CIC to obtain required information from GCE collection assets.**
- ② **GCE COC / CIC receives request for information and tasks appropriate GCE collection asset to obtain information.**
- ③ **Selected GCE collection asset employs to execute collection mission.**
- ④ **Selected GCE collection asset provides information reports to the GCE CHC. GCE collection asset may provide time-sensitive reports directly to affected units as required.**
- ⑤ **GCE collection asset reports are disseminated to other GCE assets and are subsequently provided to the MAOTGF CIC / MAFC for fusion into intelligence products and further dissemination to other MAOTGF consumers.**

INTELLIGENCE INFORMATION FLOW FOR CSSE COLLECTION OPERATIONS



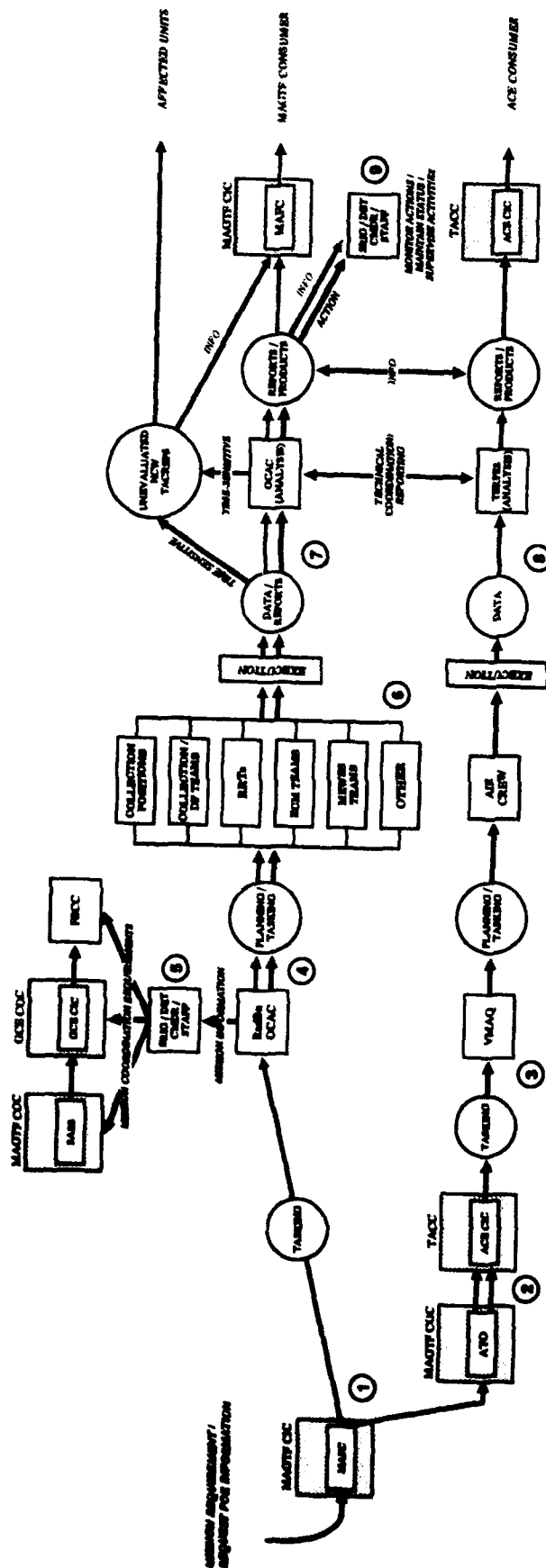
LEGEND:

- INTELLIGENCE CYCLE-RELATED ACTIVITIES
- OPERATIONAL EMPLOYMENT / COORDINATION ACTIVITIES

- 1 MAGTF CIC receives mission requirements/request for information, passes to MAFC to prepare the EEI/OIR and intelligence reporting criteria, then requests CSSEC to obtain required information from CSSE collection assets.
- 2 CSSEC receives request for information and tasks appropriate CSSE collection assets to obtain information.
- 3 Selected CSSE collection assets employ to execute collection mission.
- 4 Selected CSSE collection assets provide information reports to the CSSEC CSSEC. CSSEC collection assets may provide time-sensitive un-evaluated reports directly to affected units as required with information reports to CSSEC CSSEC.
- 5 CSSEC collection assets reports are provided to the MAGTF CIC/MAFC for fusion into intelligence product and further dissemination to other MAGTF consumers.

TAB 23.

INTELLIGENCE CYCLE FOR ORGANIC SIGINT OR ESM COLLECTION OPERATIONS



- ① MAJTFE CAC receives mission requirements / request for information, passes to MAFCO to prepare the EEI / OIR and intelligence supporting efforts, then directs requirements for ground SIGINT / ESM collection to the Pacific CCAC for implementation.
- ② MAJTFE CAC submits requirement for cruise airborne ELINT / ESM collection to MAJTFE CAC for preparation of Air Tasking Order (ATO).
- ③ ACE TACD supplies ATO and subsequently feeds VMAQ to conduct aerial reconnaissance mission. ACE CAC is requested to coordinate intelligence-specific actions with designated VMAQ crew and TERPES section.
- ④ Pacific CACD receives tasking, prepares Course Of Action (COA), compares EEIs / OIRs to SIGINT reporting instructions and subsequently assigns appropriate SIGINT collection assets to collect and report required information.
- ⑤ SBRG / Det commander and staff receive ground SIGINT / ESM mission requirement and proposed COA from CCAC, review / approve COA, provide command guidance, and coordinate mission-specific operational requirements with MAJTFE Airforce and Central Coastal Bureaus (CCB) operators / units for security and the support requirements as appropriate.
- ⑥ Selected SIGINT / ESM assets receive tasking from CCAC and conduct mission preparation to include lease of operations / joint order to SIGINT / ESM team members as appropriate. SIGINT / ESM collection mission executed.
- ⑦ SIGINT / ESM assets are in place and provide SIGINT / ESM reports via normal routing reporting network as directed by SIGINT reporting instructions received from CCAC. CCAC compiles further analysis of SIGINT / ESM reports and provides SIGINT products to MAJTFE CAC / MAFCO for fusion into intelligence products. SIGINT / ESM reports and CCAC may provide time-sensitive unclassified SIGINT Non-Confidential (NCM) Tactical Products (TAC-TEPs) as immediate threat warnings directly from SIGINT / ESM asset to affected MAJTFE ground or air units as appropriate. MAJTFE CAC / MAFCO is provided information reports of all reports issued. Pacific or Pacific Det commander maintains cognizance of all SIGINT / ESM asset activities through the CCAC.
- ⑧ Airborne ELINT / ESM information collected by VMAQ aerial reconnaissance elements are provided to TERPES for analysis are then passed to the ACE CAC for further determination as directed to the MAJTFE CAC and other ACE consumers.
- ⑨ SBRG / Det commander and staff monitor SIGINT / ESM actions / activities and supervise or coordinate supporting actions for deployed ground SIGINT / ESM assets as required.

[illegible]

- ① MAGTF OIC receives initiation request / request for information, passes to JAFG to process the EEI / OIR and Intelligence reporting element, then directs requirement for ground MAGTF / ESM collection to the Pacific CCGC for interpretation and for relevant SIGINT / ESM collection to the MAGTF OIC for the preparation of an Air Tasking Order (ATO). Pacific CCGC directs the SIGINT / ESM collection element / mission over all MAGTF SIGINT collection assets. Pacific CCGC provides this report of ATO.
- ② TAGC / AOE CIG receives ATO for airborne SIGINT / ESM collection and subsequently tasks selected initiation assets to perform missions.
- ③ JAFG with assigned TSPWAs notifies of Aerial Expedition Company missions pending for ELINT collection - designated Aerial Expedition Assets with CH-47F missions of Aerial Expedition Company missions pending for SIGINT / ESM collection. Selected assets prepare CCGC Air Tasking Order (ATO), coordinate SIGINT / ESM collection missions pending for SIGINT / ESM collection. Selected assets coordinate MAGTC operations, and assign appropriate SIGINT / ESM collection products with Internet tracking and reporting element.
- ④ Pacific CCGC receives pending for SIGINT / ESM collection operations. Prepares CCGAs, assigns EEIs / OIRs to ESM, and subsequently assigns appropriate SIGINT / ESM collection assets (ground and aerial) to collect and report relevant information.
- ⑤ SIGINT / ESM commander and staff receive ground SIGINT / ESM initiation operations and prepared CCGAs from Pacific CCGC, review / process CCGAs, provide commander guidance, and coordinate mission-specific operational requirements with MAGTF operations and Special Combat Element (SCE) operations / units for security and for support requirements as appropriate.

Section Three

Section Three is represented by yellow Tabs numbered 27 - 35.

The purpose of this section is to depict the overall structure of selected intelligence and intelligence related assets supporting an Amphibious Task Force (ATF) and MAGTF during operations afloat and ashore. The illustrations use a "building block" approach combined with color codes which identify the separate functional activities employed.

LEGEND:

COLOR

DESCRIPTION



- COMMUNICATIONS/NAVIGATIONS MEANS
OR ASSETS RELATED (INCLUDING ALL "LINES")



- GENERAL INFORMATION/INTELLIGENCE
PROCESSING OR RELAY POINTS



- IMAGERY/VIDEO RELATED

YELLOW

- SIGINT RELATED



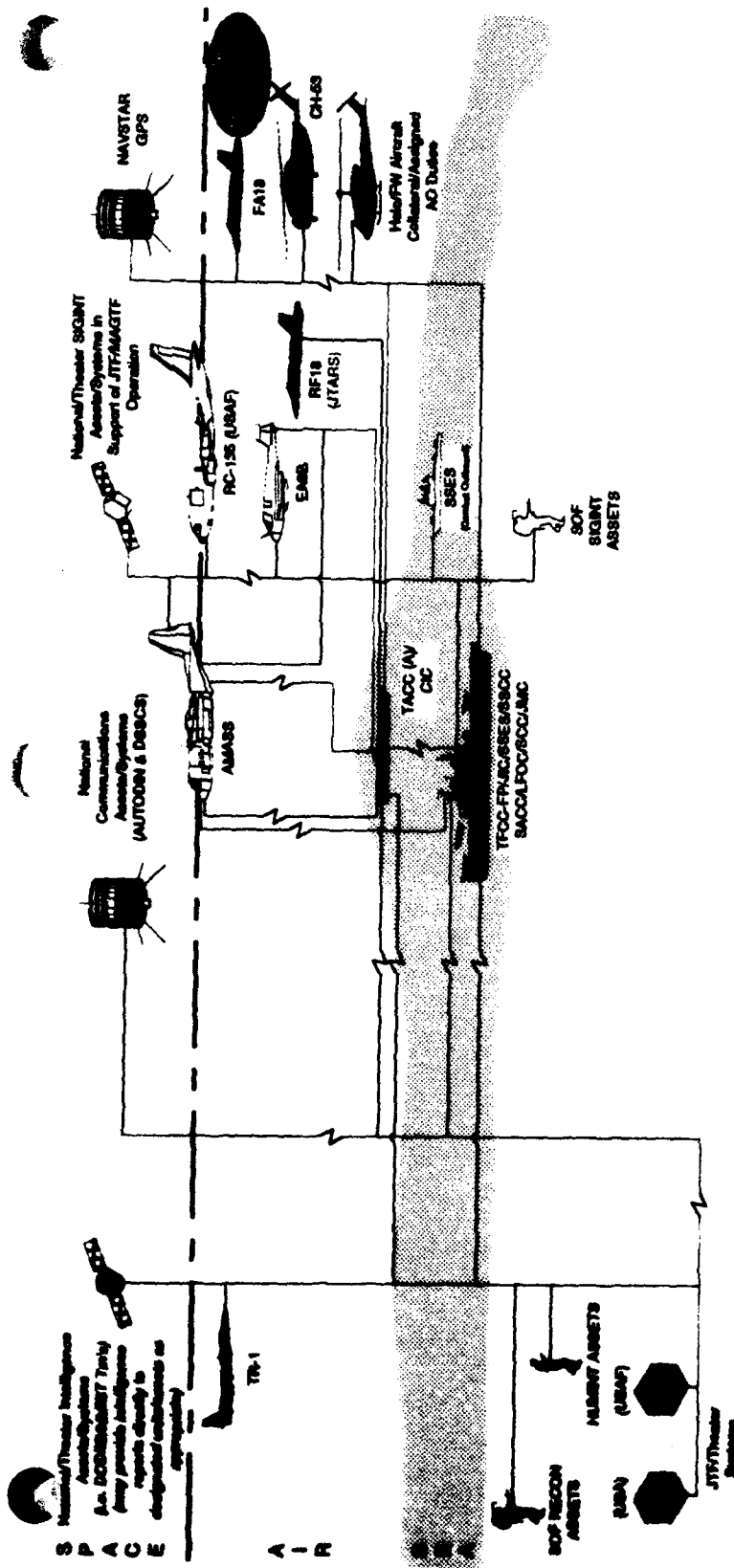
- HUMINT/VISUAL RECONNAISSANCE/OBSERVATION/
SURVEILLANCE/SENSOR RELATED



- COMMAND POSTS

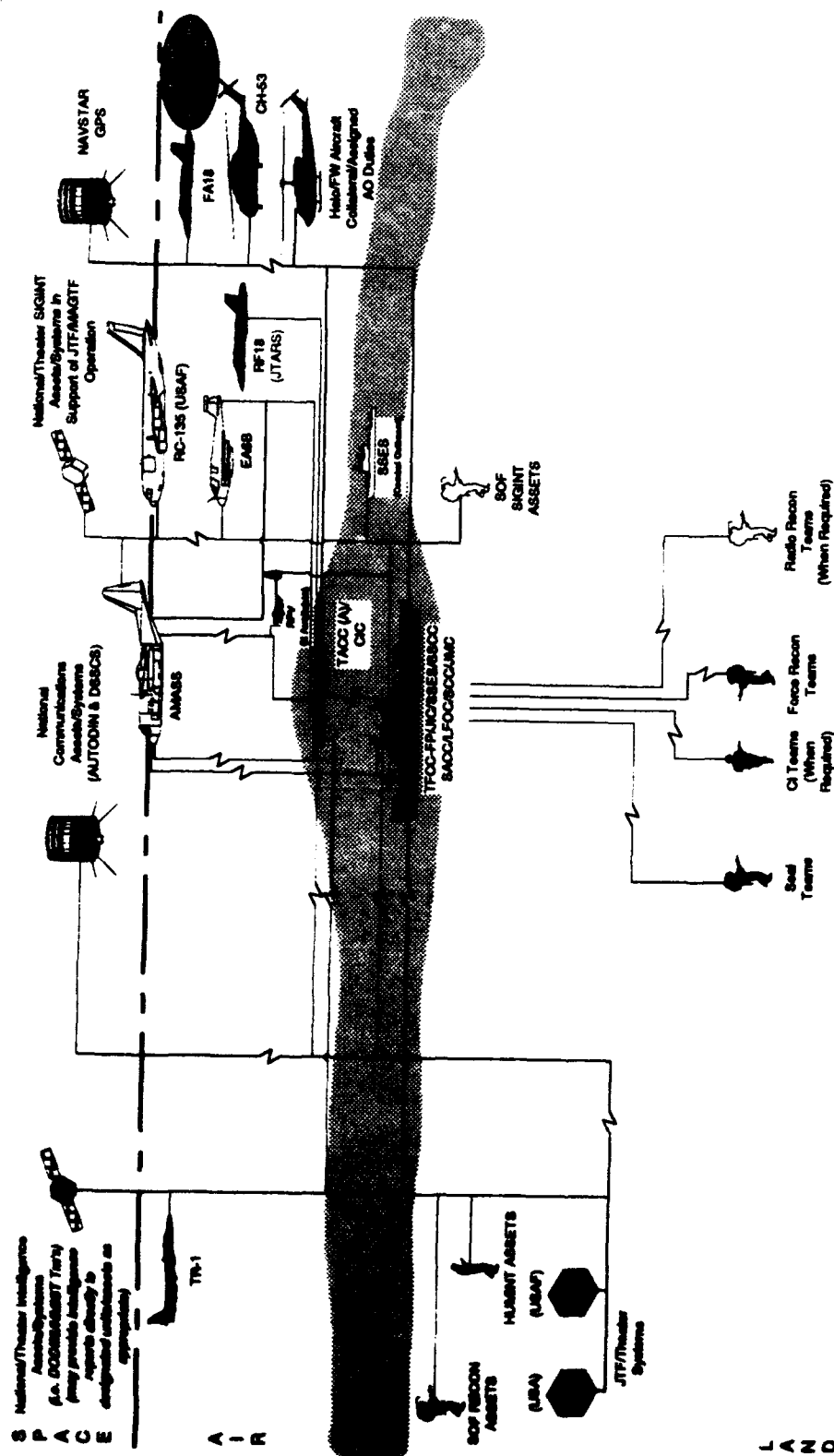
SYMBOL EXAMPLES





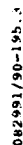
**PRIMARY ATF/MAGTF INTELLIGENCE ASSETS/INTERFACES
(AFLOAT)**

TAB 27.



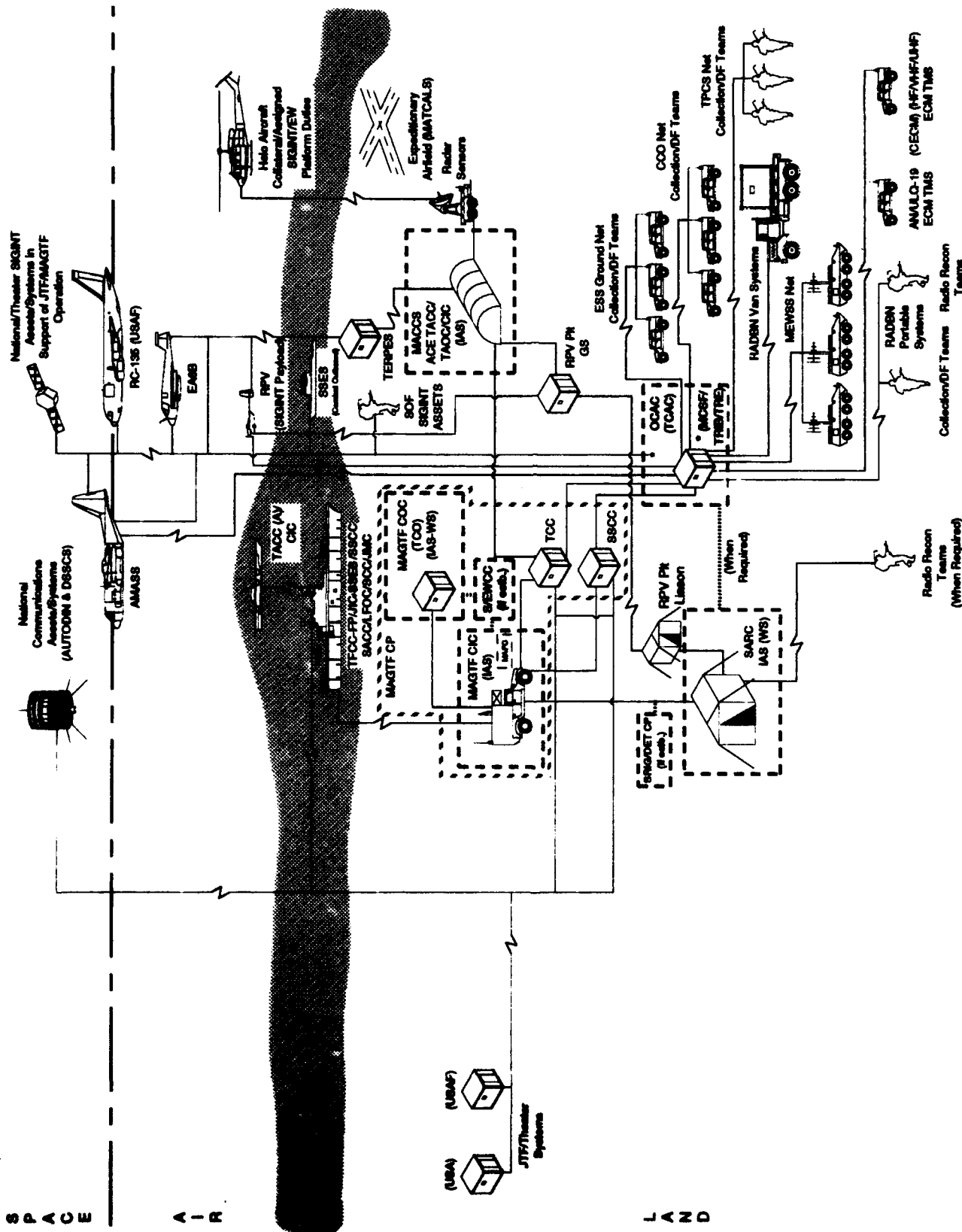
PRIMARY AT/MAGTF INTELLIGENCE ASSETS/INTERFACES
(ADVANCE FORCE/PRE-ASSAULT OPERATIONS)

TAB 28.



PRIMARY AT&T/MAGTF INTELLIGENCE ASSETS/INTERFACES
(ASSAULT OPERATIONS)

TAB 29.



PRIMARY ATF/MAGTF SIGINT/EW ASSETS/INTERFACES

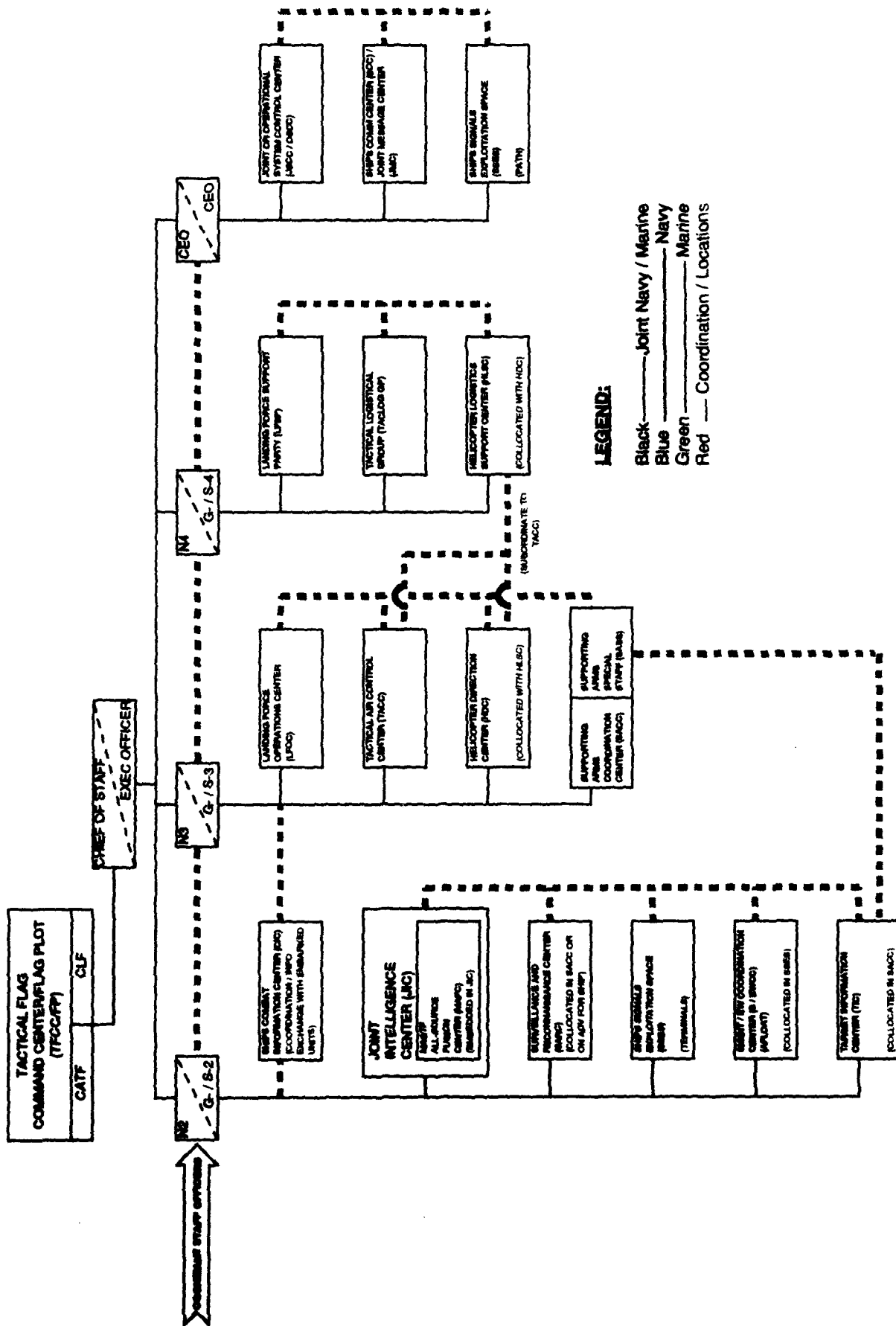
NOTE: IAS represents IAS community. Multiple Comm centers not shown.

Section Four

Section Four is represented by green Tabs numbered 36 - 41.

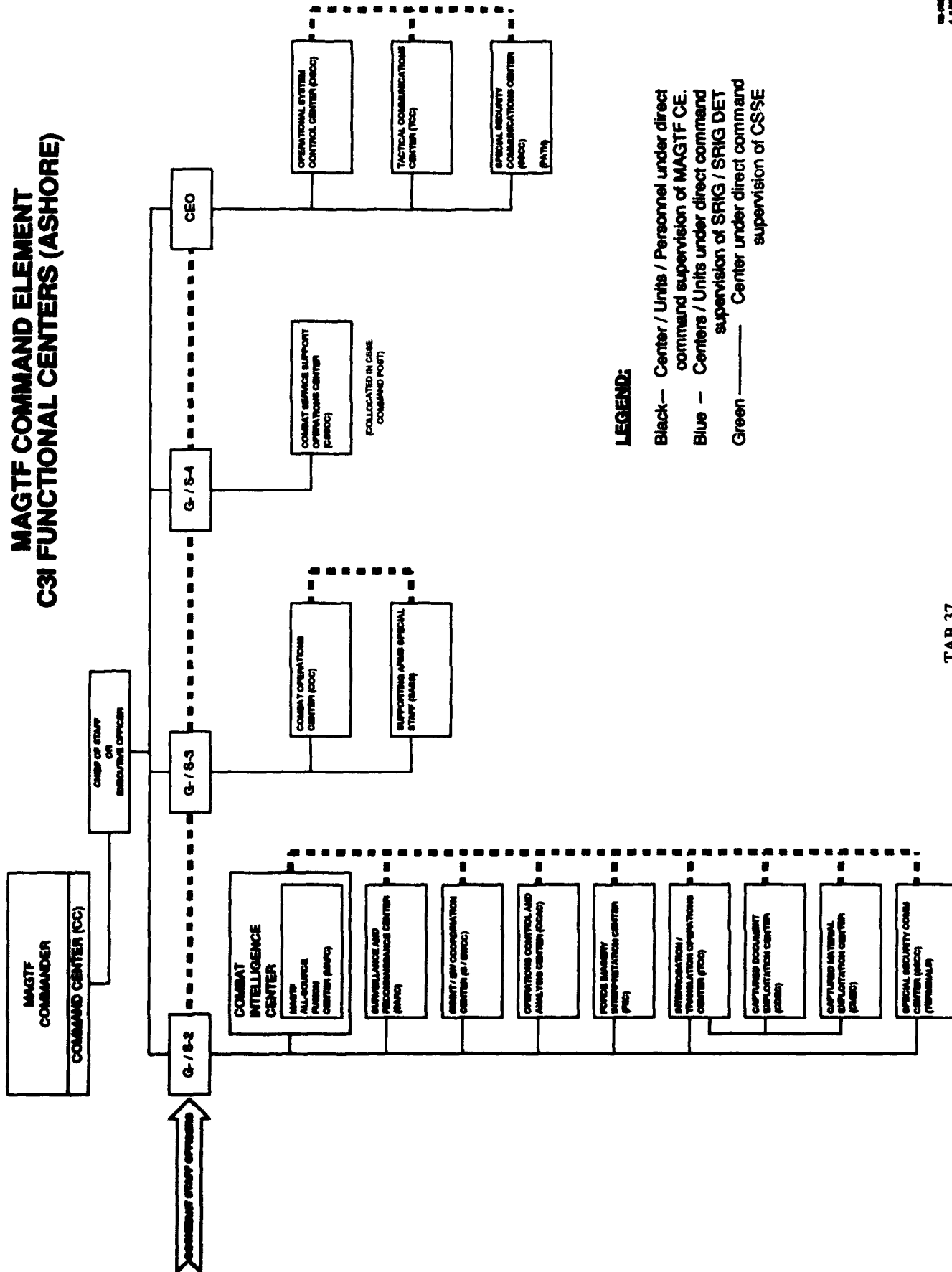
The purpose of this section is to depict the various Command, Control, Communications, and Intelligence (C³I) centers employed during ATF/MAGTF operations afloat and ashore. The diagrams represent the functional groupings that fall under the staff cognizance and broad coordinating oversight of the various staff sections. They do not depict command authority, supervision, or subordination of the C³I centers except where specified.

C3I FUNCTIONAL CENTERS (AFLOAT)

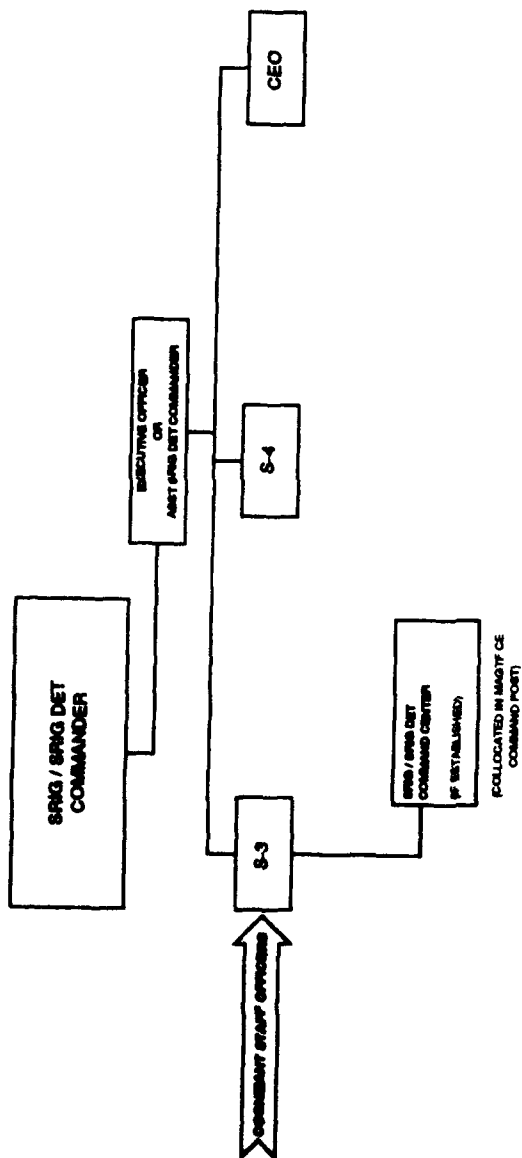


TAB 36.

MAGTF COMMAND ELEMENT C3I FUNCTIONAL CENTERS (ASHORE)

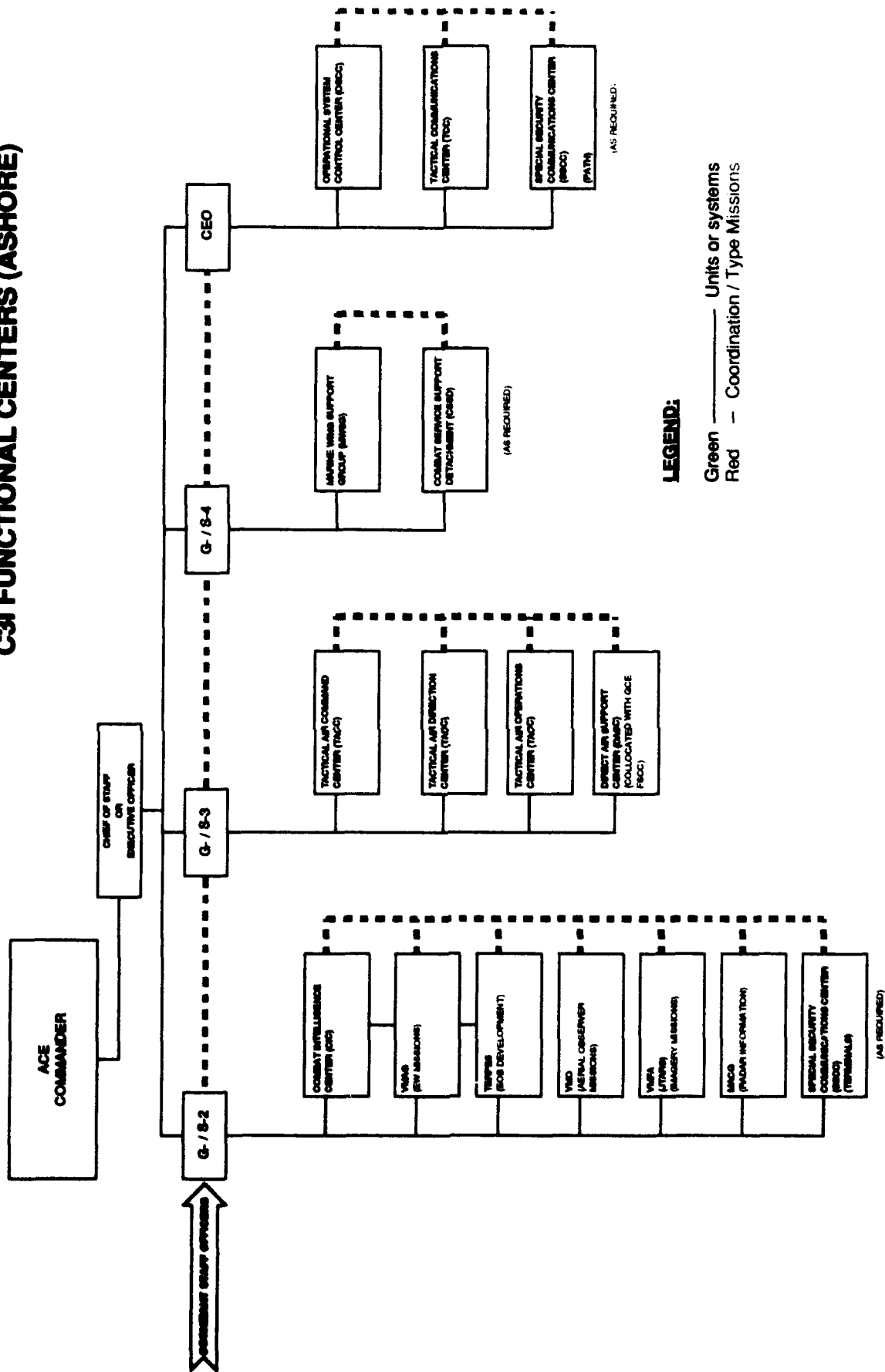


SURVEILLANCE, RECONNAISSANCE, AND INTELLIGENCE GROUP OR DETACHMENT C3I FUNCTIONAL CENTERS

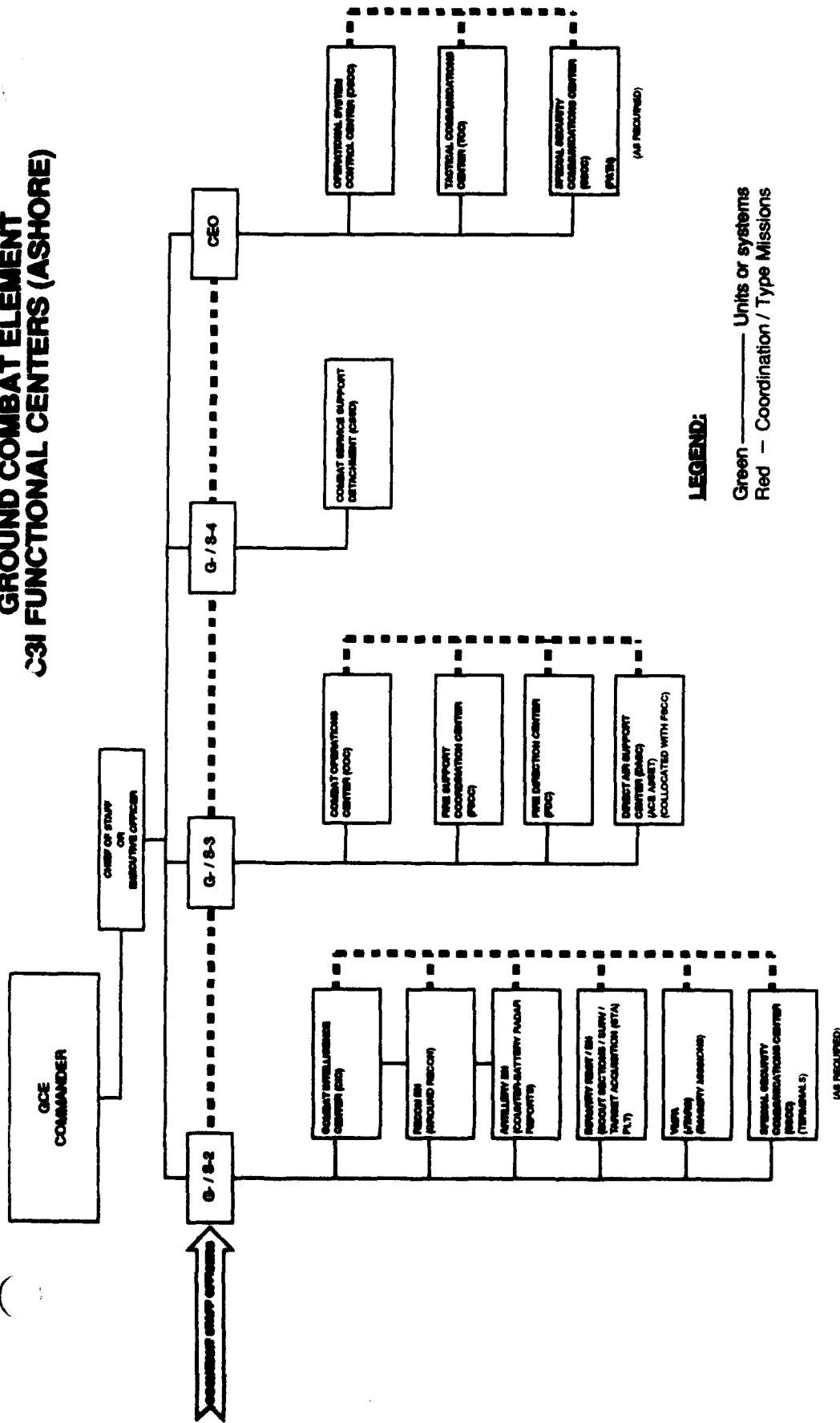


TAB 38.

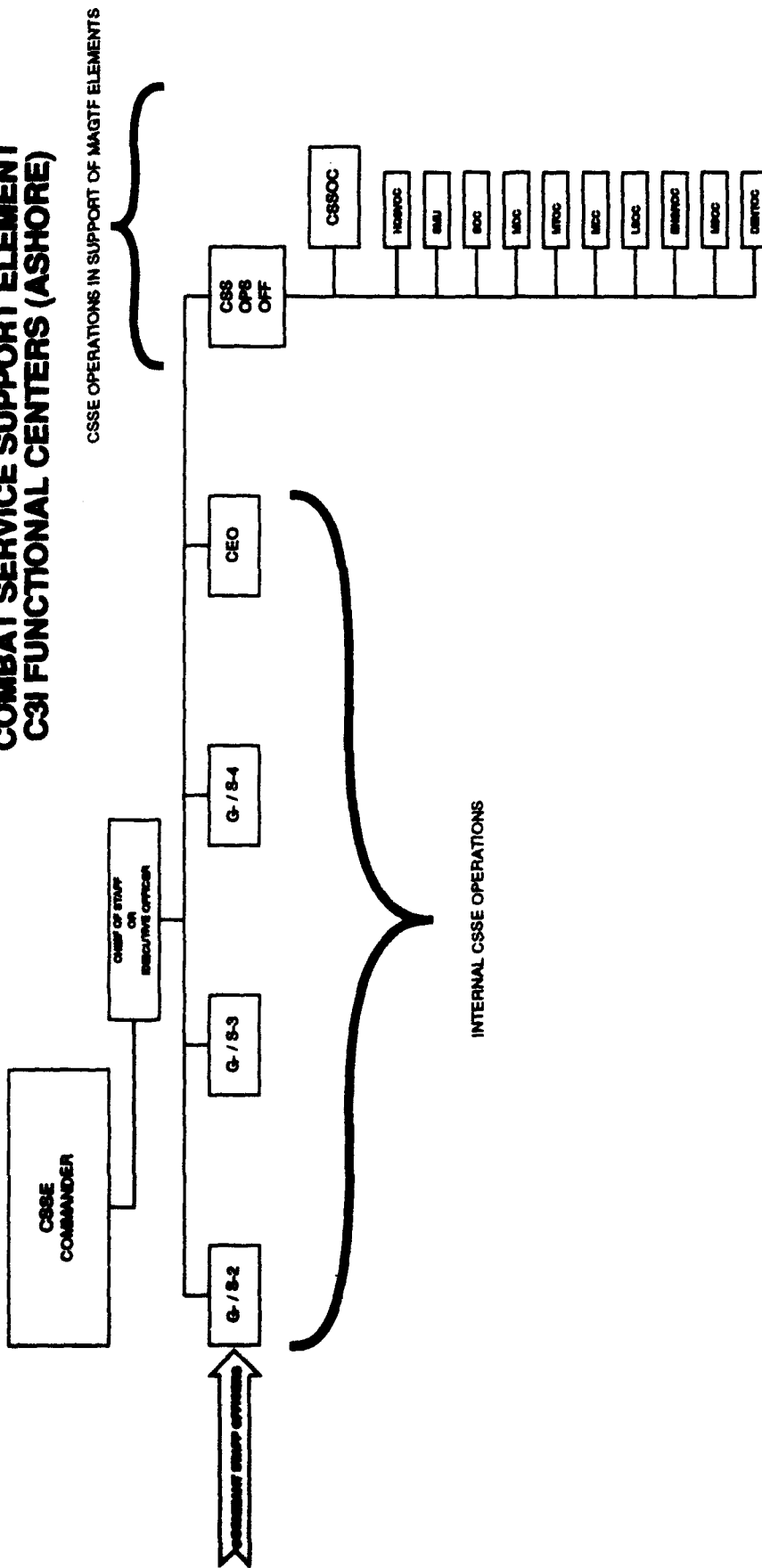
AVIATION COMBAT ELEMENT C3I FUNCTIONAL CENTERS (ASHORE)



GROUND COMBAT ELEMENT C3I FUNCTIONAL CENTERS (ASHORE)



COMBAT SERVICE SUPPORT ELEMENT C3I FUNCTIONAL CENTERS (ASHORE)



TAB 41.

Section Five

Section Five is represented by white Tabs numbered 42 - 81.

The purpose of this section is to provide brief descriptions in a standardized format of the various Command, Control, Communications, and Intelligence (C³I) centers established during ATF/MAGTF operations afloat and ashore. The C³I center description brief sheets were developed by incorporating operational experience of selected subject matter experts with compiled information contained in numerous doctrinal and reference publications. The following combination of bold lettering, underlining, and special effects were used to highlight specific information:

- | | | |
|---|---|---|
| Standard print | - | Information extracted directly from
reference publications |
| <i>Bold Italics</i> | - | <i>Compiled information</i> |
| <u><i>Double Underlined
Bold Italics</i></u> | - | <u><i>Significant recommended changes</i></u> |

1. LONG TITLE: TACTICAL FLAG COMMAND CENTER / FLAG PLOT
2. SHORT TITLE: TFCC/FP
3. REFERENCES:
 - A. MCCDC MAGTF INTEROPERABILITY REQUIREMENTS CONCEPTS (MIRC) (4 MAY 1990)
 - B. NSSC C3I ANALYSIS REPORT (PMS 377) (13 JUNE 1986)
 - C. CMC MARINE CORPS COMMAND AND CONTROL MASTER PLAN (3 AUG 1987)

4. MISSION:

(MCC2MSTR PLAN
pg 4-16)

To provide the CATF with the capability to effectively employ an amphibious task force and to monitor and control the assault phase of an amphibious landing.

5. DESCRIPTION:

(MCC2MSTR PLAN
pg 4-16)

The TFCC/FP is a space aboard the designated flagship of an ATF that serves as the principal command and control for all operations and missions performed in support of the embarked CATF. The TFCC/FP provides the CATF with systems for collecting, displaying, evaluating, and disseminating tactical and command information for effective employment of his forces in the amphibious, sea control, and power projection roles.

6. FUNCTIONS:

(MCC2MSTR PLAN
pg 4-16)

- * Exercise overall command of assigned elements/units of the ATF.
- * Provide the capability to override actions of subordinate commanders when required.
- * Display strategic and tactical information in real time and on static displays.
- * Monitor all operations of assigned forces.

* Communicate, in real time, with assigned forces and other commands, including the highest command authority.

7. ESTABLISHMENT:

(ARC Compilation)

The TFCC/FP is established and activated upon embarkation of CATF.

A. INITIATING AUTHORITY:

CATF

B. CONTROLLING AUTHORITY:

CATF

C. SUPERVISING AUTHORITY:

CATF N3

D. ORGANIZATIONAL STRUCTURE:

- * CATF
- * CATF N3
- * CLF
- * TFCC/FP Watch sections

E. MANNING:

(ARC Compilation)

Proper manning of the TFCC/FP is the responsibility of the CATF N3. TFCC/FP spaces are manned by personnel from the ATF staff and may be augmented by the individual ships company personnel or by LF personnel during the assault phase of an amphibious operation. The TFCC/FP manning must be sufficient to establish watch sections in order to maintain sustained 24 hour command and control operations.

F. LOCATION:

(ARC Compilation)

(1) AFLOAT:

The exact location of TFCC/FP designated spaces are entirely dependent upon the type of ship and individual ships' configuration. The assigned ships' loading characteristics manual must be reviewed.

Generally, the TFCC/FP will be situated either on the upper decks near the bridge or within close proximity of the ships Combat Information Center (CIC), and/or JIC.

(2) ASHORE: Not Applicable in this situation.

G. COORDINATION:

(ARC Compilation)

(1) HIGHER:

- * JTF Commander and/or Fleet Commander
- * JTF J3
- * Theater CinC
- * Theater Command J3
- * National Military Command Center (NMCC)
- * National Command Authority

(2) ADJACENT:

- * Carrier Battle Group
- * Surface Action Group

(3) LOWER:

- * Individual ships of the ATF
- * CLF

H. COMMUNICATIONS CONNECTIVITY:

(ARC Compilation)

(1) HIGHER:

- * Ships GENSER Communication Center (SCC) for secure worldwide GENSER voice and teletype communications.
- * Ships Signals Exploitation Space (SSES) for secure worldwide special intelligence communications (SPINTCOMM).
- * Liaison Teams from JTF, Theater CINC, and/or national assets using secure portable SATCOM systems.

(2) ADJACENT:

- * Ships GENSER Communications Center (SCC) for secure GENSER voice and teletype communications to other ATF ships.

(3) LOWER:

- * Ships intercom, cctv, and dial telephone to elements/functional centers on same ship.

- * *Ships GENSER Communications Center (SCC) for secure GENSER voice and teletype communications to other ATF ships.*

8. PRIMARY SYSTEMS EMPLOYED:

(ARC Compilation)

The systems employed by each TFCC/FP will depend on the type of ship used. Generally, each TFCC/FP will have a combination of systems that will vary from manually plotted situation maps and voice radio communications systems to sophisticated computer display and high speed digital communications systems. Refer to the specific ships loading characteristics pamphlet and coordinate with ATF and/or ships company communications or operations personnel for specific details. Some or all of the following systems are installed on LCC, LHA, LHD, and LPH class ships supporting the functions of the TFCC/FP:

- * *Amphibious Flagship Data System (AFDS)*
 - * *Naval Tactical Data System (NTDS)*
 - * *Amphibious Support Information System (ASIS)*
- * *Integrated Tactical Amphibious Warfare Data System (ITAWDS) and subsystems*
 - * *Management Information System (MIS)*
 - * *Tactical Data System (TDS)*
 - * *Tactical Information Processing System (TIPS)*
 - * *Radar Display Group (RDG)*
- * *Improved Integrated Tactical Amphibious Warfare Data System (IMPV ITAWDS) and subsystems*
 - * *Tactical Data System (TDS)*
 - * *Tactical Information Processing System (TIPS)*
- * *AN/USQ-88(V)1 - Flag Data Display System (FDDS)*
- * *AN/SXQ-8 (V) - Closed Circuit Television System (CCTV)*
- * *AN/USQ-90 - Position Location Reporting System (PLRS)*
 - * *RT-1343/TSQ-129 - Position Location Reporting System - User Unit (PLRS-UU)*
- * *NAVSTAR Global Positioning System (GPS) user equipment*

9. OPTIONAL SYSTEMS EMPLOYED:

(ARC Compilation)

Theater CINC, JTF, and rapid response national and/or Special Operations Force (SOF) liaison teams employ a variety of portable computer and communications systems that may be utilized in the TFCC/FP during contingency operations. Coordination must be made with ATF and ships company

communications and operations personnel when these systems are planned to be used within the TFCC/FP. The following systems may be used to augment TFCC/FP operations:

- * IBM Compatible Portable Computer Systems*
- * Portable SATCOM systems providing secure voice, teletype, and facsimile communications.*

10. **REPORTS/PRODUCTS PROVIDED:**

(ARC Compilation)

- * Operational Plans/Orders*
- * Operational Situation Reports*

1. LONG TITLE: JOINT INTELLIGENCE CENTER
2. SHORT TITLE: JIC
3. REFERENCES:
 - A. FMFM 2 THE MARINE AIR-GROUND TASK FORCE
 - B. FMFM 3-1 COMMAND AND STAFF ACTION
 - C. FMFM 3-21 MAGTF INTELLIGENCE OPERATIONS
 - D. OH 3-20 COMMANDER'S GUIDE TO INTELLIGENCE
 - E. MCCDC MAGTF INTEROPERABILITY REQUIREMENTS CONCEPTS (MIRC) (4 MAY 1990)
 - F. NSSC C3I ANALYSIS REPORT (PMS 377) (13 JUNE 1986)
 - G. CMC MARINE CORPS COMMAND AND CONTROL MASTER PLAN (3 AUG 1987)

4. MISSION:

(OH 3-20, pg 5-4)

To provide the CATF, CLF, and subordinate ATF and LF commanders with intelligence support necessary to conduct amphibious operations.

5. DESCRIPTION:

(OH 3-20, pg 5-4)

The JIC is composed of designated shipboard spaces with installed C3I systems that incorporates intelligence materials, personnel, and support functions of both the CATF and CLF to reduce duplicative functions and produce more comprehensive and timely intelligence for the entire ATF. The JIC also provides the landing force intelligence staff with working spaces and communications.

6. FUNCTIONS:

(FMFM 3-21, pg 3-12)

- * Determines and consolidates intelligence requirements for the ATF as a whole.
- * Prepares the intelligence annex and/or OPTASK INTEL messages.
- * Collects and evaluates information and production and dissemination of derived intelligence required for the planning and conduct of amphibious operations or exercises.

- * Prepares an integrated joint collection plan and/or worksheet.
- * Coordinates and processes collection requests to higher and supporting activities.
- * Manages organic collection assets and activities.
- * Prepares and updates intelligence plans, estimates, summaries, target and other special studies, situation maps, and list of targets.
- * Acquires, distributes, and consolidates mapping, charting, and geodetic (MC&G) products, photos, and pertinent directives.
- * Prepares joint intelligence briefing, joint analysis of information and imagery products and storage and retrieval of information.
- * Provides target intelligence support to the TIC.
- * Formulates and implements counterintelligence measures.
- * Establishes liaison with higher, adjacent, and supporting intelligence activities.
- * Integrates cryptologic support to amphibious warfare (CSAW) into the overall intelligence effort.
- * Formulates and implements signals security (SIGSEC) measures.

(C3I RPT, 10-1-23)

- * Develop from the NIPS Tactical Area File (TAF), a large-scale geographic database, a Dynamic Tactical Area File (DTAF) which is tailored precisely for the specific mission, type of operation, and/or Amphibious Operations Area (AOA).

(ATC)

- * Receive, process, analyze, disseminate, and maintain enemy air, naval, ground, missile, electronic order of battle (OOB) for the ATF's area of operation.

- * Maintain Intelligence situation map on enemy forces in the ATF's area of operation.

7. ESTABLISHMENT:

(OH 3-20, PG 5-4)

The CATF and CLF establish the JIC by joint agreement.

A. INITIATING AUTHORITY:

(ARC)

CATF

B. CONTROLLING AUTHORITY:

(ARC)

CATF

C. SUPERVISING AUTHORITY:

(OH 3-20, PG 5-4)

CATF N2

D. ORGANIZATIONAL STRUCTURE:

(FMFM 3-21, 1-7)

- * CATF N2
- * CLF G/S2
- * JIC Operations Officer
- * Assistant JIC Operations Officer
- * JIC Watch Officer (per watch section)
- * Collections Section
- * Analysis and Production Section
- * Imagery Interpretation Section
- * Administration Section
- * Storage and Retrieval Section
- * Human Intelligence Section
- * Special Warfare Intelligence Section
- * Surveillance and Reconnaissance Center (SARC)
(separate space if on same ship as JIC or located on designated Advance Force ship. Under CLF G/S2 coinizance)
- * Ship's Signal Exploitation Space (SSES)
(separate space under CATF Cryptologic Staff Officer (CSO) coinizance)
- * Target Information Center (TIC) (collocated in SACC under JIC coinizance)
- * Landing Force Operations Center (LFOC) Intelligence Watch Section
(collocated in LFOC under CLF G/S2 coinizance)

E. MANNING:

(ARC Compilation)

Proper manning of the JIC is a dual responsibility of the CATF N2 and the CLF G/S2. Generally, JIC spaces are manned initially by the assigned ships company intelligence personnel and the ATF's intelligence staff. During landing force embarkation, personnel from the CLF intelligence section augmented by required SRIG Detachment personnel will be incorporated into JIC watch sections in order to conduct sustained 24 hour intelligence operations. JIC Watch sections and duty assignments are made with consideration given to intelligence personnel or units that must phase ashore during the early phases of an amphibious operation. The CATF N2 must ensure that the JIC maintains sufficient ATF intelligence personnel to support the ATF even after all landing force intelligence personnel have deployed ashore.

F. LOCATION:

(ARC Compilation)

(1) AFLOAT:

The exact location of JIC designated spaces are entirely dependent upon the type of ship and individual ships' configuration. The assigned ships' loading characteristics manual must be reviewed. Generally, the JIC will be located in close proximity of the ships Combat Information Center (CIC), the Supporting Arms Coordination Center (SACC), and the Landing Force Operations Center (LFOC).

(2) ASHORE: Not Applicable in this situation.

G. COORDINATION:

(ARC Compilation)

(1) HIGHER:

- * *ATF Tactical Flag Command Center/Flag Plot (TFCC/FP)*
- * *JTF J2*
- * *Theater CinC J2*
- * *Theater FOSIC / FOSIF*
- * *American Embassy (if applicable)*
- * *National Intelligence Agencies*

(2) ADJACENT:

SRIG/SRIG DET-CC (if established)

<i>SSES</i>	<i>LFOC</i>	<i>LFSP</i>
<i>CIC</i>	<i>SACC</i>	<i>TACLOG GP</i>
<i>S/EWCC</i>	<i>TACC (A)</i>	
<i>TIC</i>	<i>HDC</i>	

SARC

(3) LOWER:

- * *Assigned organic Surveillance, Reconnaissance, Intelligence, and Electronic Warfare units/assets of the ATF and Landing Force.*

H. COMMUNICATIONS CONNECTIVITY:

(ARC Completion)

(1) HIGHER:

- * *Ships intercom, cctv, and dial telephone to elements on same ship.*
- * *Ships GENSER Communication Center (SCC) for secure worldwide GENSER voice and teletype communications.*
- * *Ships Signals Exploitation Space (SSES) for secure worldwide voice and teletype special intelligence communications (SPINTCOMM).*
- * *JILES SATCOM system and team (if installed)*
- * *NMIST SATCOM system and team (if installed)*

(2) ADJACENT:

- * *Ships intercom, cctv, and dial telephone to elements on same ship.*
- * *Ships GENSER Communications Center (SCC) for secure GENSER voice and teletype communications to other ATF ships.*
- * *Ships Signals Exploitation Space (SSES) for secure worldwide voice and teletype special intelligence communications (SPINTCOMM).*
- * *Activated Landing Force Communications circuits.*

(3) LOWER:

- * *Ships intercom, cctv, and dial telephone to elements on same ship.*
- * *Ships GENSER Communications Center (SCC) for secure GENSER voice and teletype communications to other ATF ships.*
- * *Ships Signals Exploitation Space (SSES) for secure worldwide voice and teletype special intelligence communications (SPINTCOMM).*

8. PRIMARY SYSTEMS EMPLOYED:

(ARC Completion)

The systems employed by each JIC will depend on the type of ship used. Generally, each JIC will have a combination of systems that will range from simple microfiche readers to portable and mainframe computer systems and special purpose terminal systems (i.e. FIST, POST, TRE). Refer to the specific ships loading characteristics pamphlet and coordinate with ships company intelligence personnel for specific details. The LHD-1 has the following systems supporting the JIC:

- * *AN/SYQ-9(V)3 - Naval Intelligence Processing System (NIPS)*
- * *AN/USQ-88(V)1 - Flag Data Display System (FDDS)*
- * *Integrated Tactical Amphibious Warfare Data System (ITAWDS) and subsystems*
- * *Improved Integrated Tactical Amphibious Warfare Data System (IMPV ITAWDS) and subsystems*
- * *AN/SYQ-7 (V) () - Navy Modular Automated Communications System (NAVMACS)*
- * *Fleet Imagery Support Terminal (FIST) systems*
- * *AN/SXQ-8 (V) - Closed Circuit Television System (CCTV)*
- * *AN/USQ-90 - Position Location Reporting System (PLRS)*
 - * *RT-1343/TSQ-129 - Position Location Reporting System - User Unit (PLRS-UU)*
- * *NAVSTAR Global Positioning System (GPS) user equipment*

9. OPTIONAL SYSTEMS EMPLOYED:

(ARC Completion)

Embarked LF intelligence assets and rapid response national and/or Special Operations Force (SOF) intelligence assets employ a variety of portable intelligence and communications systems that may be utilized in the JIC. Coordinate with ATF N2 and ships company intelligence personnel when these intelligence or communications systems are planned to be used within the JIC. The following systems may be used to augment JIC operations:

- * *IBM Compatible Portable Computer Systems*
- * *Collection Management Systems (Topcat/Swifthawk)*
- * *Prototype Ocean Surveillance Terminal (POST) system*
- * *Various portable Secondary Imagery Dissemination Systems (SIDS)*
- * *DIA National Military Intelligence Support Team (NMIST) Systems*
- * *Joint Intelligence Liaison Element System (JILES)*

10. REPORTS/PRODUCTS PROVIDED:

(ARC Completion)

- * *Intelligence estimates*
- * *Intelligence Annex/Apendices*
- * *Periodic Intelligence Reports/Summaries*
- * *MC&G products*
- * *Imagery and Photo products*
- * *Intelligence Briefings*
- * *Intelligence Indications and Warning (I&W) reports*

1. LONG TITLE: MAGTF ALL-SOURCE FUSION CENTER
2. SHORT TITLE: MAFC
3. REFERENCES:
 - A. FMFM-3-21 MAGTF INTELLIGENCE OPERATIONS
 - B. OH 3-22 SURVEILLANCE, RECONNAISSANCE, AND INTELLIGENCE GROUP (SRIG)
 - C. FMFRP 3-28 TRI-MEFSTANDING OPERATING PROCEDURES FOR FIELD INTELLIGENCE OPERATIONS (12 JULY 89)

4. MISSION:

(ARC Compilation)

To provide fused, all-source intelligence to MAGTF commanders and other commanders as directed and to provide personnel, intelligence data bases, and equipment required to augment or man the Collection Unit/Section, Analysis/Production Unit/Section, and Target Intelligence Unit/Section of a MAGTF G/S-2 Intelligence Staff.

5. DESCRIPTION:

(ARC Compilation)

The MAFC is a separate section of the Intelligence Company of the SRIG of the MEF, made up of intelligence officers and specialists. In garrison, the MAFC will focus on probable MEF theaters of operation and will develop and maintain intelligence data bases, prepare intelligence contingency kits, maintain area expertise, and conduct detailed second echelon analysis of intelligence received from national, theater, and other external sources. When deployed as part of the SRIG Detachment, the MAFC (or elements of the MAFC) will be integrated into the MAGTF G/S-2 Intelligence Section for operations within the JIC during afloat operations and in the MAGTF CIC during subsequent operations ashore.

6. FUNCTIONS:

(ARC Compilation)

A. GARRISON:

- * *To receive, process, correlate, and integrate multi-source intelligence and intelligence information into products required for the planning and execution of MAGTF operations.*

- * *To establish and maintain intelligence data bases to support intelligence*

analysis and production.

- * To provide intelligence analysis and production support for deliberate and crisis planning.*
- * To provide a central repository and access to local and national intelligence data bases.*
- * To organize, train, and equip regionally focused, task organized teams to support MAGTFs and other designated commands.*
- * To provide pre-deployment intelligence support to routine MAGTF deployments tailored to the potential threat and geographic area of operations.*
- * To coordinate and interface with national and theater intelligence agencies concerning MEF intelligence requirements when directed.*
- * To provide ADP support for intelligence matters of the MEF G-2, SRIG, and assigned elements.*
- * To perform intelligence collection management support to supported commands.*

B. DEPLOYED:

- * To provide the personnel and equipment required to man and/or augment the MAGTF's Intelligence Section's Collection Unit/Section, Analysis/Production Unit/Section, and Target Intelligence Unit/Section within the JIC during afloat operations and in the MAGTF Combat Intelligence Center (CIC) during subsequent operations ashore in accordance with FMFRP 3-28 (TRI-MEF SOP for Field Intelligence Operations).*
- * To perform the following functions and tasks associated with MAGTF collection, analysis/production, and target intelligence requirements of the JIC/TIC and/or MAGTF CIC:*

(1). COLLECTION:

- *To establish the collection management office for the MAGTF and develop, implement, and monitor the MAGTF collection plan.*
- *To coordinate and interface with higher, adjacent, and subordinate commands for collection requirements.*
- *To identify national, theater, and organic collection units or agencies and request intelligence collection support or conduct collection tasking as appropriate.*
- *To maintain constant awareness of the operational status of organic collection assets.*

(2). ANALYSIS/PRODUCTION:

- *To maintain an all-source intelligence data base on the MAGTF's areas of responsibility, influence, and interest.*
- *To produce intelligence reports, summaries, estimates, and briefings.*
- *To assist in the preparation of special studies and intelligence estimates for future operations.*
- *To maintain a current assessment of the enemy situation.*
- *To produce and maintain enemy order of battle intelligence files on the MAGTF's areas of responsibility, influence, and interest.*
- *To provide Mapping, Charting, and Geodesy (MC&G) support the MAGTF and subordinate elements as directed.*

(3) TARGET INTELLIGENCE:

- *To acquire and maintain targeting materials for the MAGTF areas of responsibility, influence, and interest.*
- *To locate and identify MAGTF enemy targets or target complexes.*
- *To evaluate selected target's importance and analyze the most effective weapons employment to produce the desired level of damage.*
- *To assist in the development of target lists and target bulletins.*
- *To maintain the Target Intelligence Map and appropriate overlays.*
- *To assist in Bomb Damage Assessment (BDA) analysis and reporting.*
- *To support the targeting effort during amphibious operations by assisting the ATF Target Information Center (TIC) established in the Supporting Arms Coordination Center (SACC).*

7. **ESTABLISHMENT:**

A. **INITIATING AUTHORITY:**

(FMFM 3-21, pg 7-32)

Commanding Officer, SRIG

B. **CONTROLLING AUTHORITY:**

(ARC)

Commanding Officer, Intelligence Company, SRIG

C. **SUPERVISING AUTHORITY:**

(ARC)

Officer-in-Charge, MAFC

(1). **GARRISON:**

- * *Under operational and administrative control of Commanding Officer, Intelligence Company, SRIG.*

(2). **DEPLOYED:**

- * *Operationally detached from from SRIG and assigned to the MAGTF G/S2 for duty in the MAGTF CIC.*
- * *Command and administrative control is maintained by SRIG or SRIG Detachment Commander.*

D. **ORGANIZATIONAL STRUCTURE:**

(1). **GARRISON:**

(OH 3-22, pg 3-21)

- * Executive Section
- * Requirements/Collection Management Section
- * Library/Data Base/Media Section
- * System Support Section
- * Current Intelligence/Threat Team
- * Production/Analysis Teams
- * Counterintelligence Analysis Team

(2). **DEPLOYED (MEF LEVEL):**

(OH 3-22, pg 3-49)

- * MAFC Headquarters
- * Collection Unit/Section
- * Analysis/Production Unit/Section
 - * Section/Unit HQ
 - * Ground Order of Battle Cell
 - * Air Order of Battle Cell
 - * SIGINT Cell
 - * HUMINT Cell
- * Target Intelligence Unit/Section

* Intelligence Analysis Center (IAC) Section

E. MANNING:

(ARC Compilation)

The MAFC is an established section of the Intelligence Company, SRIG with a peacetime Table of Organization (T/O) authorization of 9 officers/41 enlisted and a wartime T/O authorization of 18 officers/99 enlisted.

F. LOCATION:

(ARC Compilation)

(1) AFLOAT:

* *The MAFC will be imbedded in the JIC and/or TIC during afloat operations.*

(2) ASHORE:

* *The MAFC will be imbedded in the MAGTF CIC during subsequent operations ashore.*

G. COORDINATION:

(ARC Compilation)

(1) HIGHER:

*SRIG/SRIG DET-CC (if established)
JIC (Afloat)*

(2) ADJACENT:

*SSES
CIC
S/EWCC
TIC
SARC*

(3) LOWER:

None

H. COMMUNICATIONS CONNECTIVITY:

(ARC Compilation)

(1) HIGHER:

- * *Ships intercom, cctv, and dial telephone to elements on same ship (when afloat).*
- * *Ships GENSER Communications Center (SCC) for secure worldwide GENSER voice and teletype communications (when afloat).*

- * *Ships Signals Exploitation Space (SSES) for secure worldwide voice and teletype special intelligence communications (SPINTCOMM) (when afloat).*
- * *Established secure and non-secure wireline and telephone systems (in garrison and when deployed ashore)*
- * *Established Station Message Center or Tactical GENSER Communications Center (TCC) for secure worldwide GENSER teletype communications (in garrison and when established ashore).*
- * *Established Station Special Intelligence Communications (SPINTCOMM) Center or deployed tactical Special Security Communications Center (SSCC) for secure worldwide special intelligence communications (SPINTCOMM).*
- * *Established LF secure and non-secure voice radio communications circuits (when established ashore).*
- * *JILES SATCOM system and team (if established)*
- * *NMIST SATCOM system and team (if established)*
- * *Mobile Cryptologic Support Facility (MCSF) or Tributary SATCOM system and team (if established).*

(2) **ADJACENT:**

- * *Ships intercom, cctv, and dial telephone to elements on same ship (when afloat).*
- * *Ships GENSER Communications Center (SCC) for secure GENSER voice and teletype communications to other ATF ships and/or units (when afloat).*
- * *Established Station Message Center or Tactical GENSER Communications Center (TCC) for secure GENSER teletype communications (in garrison and when established ashore).*
- * *Tactical MAGTF secure and non-secure wireline, telephone, and radio communications networks (in garrison and when established ashore).*

(3) **LOWER:**

- * *None*

8. **PRIMARY SYSTEMS EMPLOYED:**

(ARC O-1-1)

In garrison, the MAFC will use both non-deployable systems and deployable systems to plan, prepare, and conduct all-source intelligence support of the MAGTF. The following systems are available to the MAFC for normal garrison operations:

- * AN/TYQ-19 - Intelligence Analysis Center (IAC) (Garrison)*
- * Intelligence Analysis System (IAS) Suite*
- * IBM compatible computer systems (portable and desktop)*
- * World Wide Indicator Management System (WWIMS) (Garrison)*
- * Department of Defense Intelligence Information System (DODIS) (Garrison)*
- * STU-III secure telephone and facsimile systems*

During afloat operations, the MAFC will be imbedded in the JIC and/or TIC and will use the systems that are both installed and available on the assigned ship.

During subsequent operations ashore, the MAFC will be imbedded within the MAGTF CIC and will use the following systems:

- * Intelligence Analysis System (IAS) Suite*
- * Tactical Combat Operations (TCO) software*
- * IBM compatible computer systems (portable and desktop)*
- * AN/UYK-83 or AN/UYK-85 (FMF-EUCE)*
- * AN/USQ-90 - Position Location Reporting System (PLRS)*
 - * RT-1343/TSQ-129 - Position Location Reporting System - User Unit (PLRS-UU)*
- * NAVSTAR Global Positioning System (GPS) user equipment*
- * AN/PSC-2A - Digital Communications Terminal (DCT)*

9. OPTIONAL SYSTEMS EMPLOYED:

(ARC Compilation)

Manually maintained card files and data bases. Special purpose software programs for intelligence collection management, analysis, and production.

10. REPORTS/PRODUCTS PROVIDED:

(ARC Compilation)

- * Intelligence Estimates*
- * Request for Intelligence Information (RII) messages*
- * Response to Request for Intelligence Information (RRII) messages*
- * Enemy Order of Battle Files*
- * Intelligence Reports*

- * *Intelligence Summaries*
- * *Intelligence situation maps and overlays*
- * *Maps, Charts, and Geodesy products*
- * *Terrain Analysis products*
- * *Target Analysis products*
- * *Target Intelligence maps and overlays*

1. LONG TITLE: SURVEILLANCE AND RECONNAISSANCE CENTER
2. SHORT TITLE: SARC
3. REFERENCES:
 - A. FMFM-3-21 MAGTF INTELLIGENCE OPERATIONS
 - B. OH 3-22 SURVEILLANCE, RECONNAISSANCE, AND INTELLIGENCE GROUP (SRIG)
 - C. FMFRP 3-28 TRI-MEF STANDING OPERATING PROCEDURES FOR FIELD INTELLIGENCE OPERATIONS (12 JULY 89)

4. MISSION: **(ARC Compilation)**
To plan, implement, coordinate, and monitor, the surveillance, reconnaissance, and intelligence collection activities conducted by assigned and attached assets of the SRIG or SRIG Detachment of a Marine Air-Ground Task Force (MAGTF).

5. DESCRIPTION: **(ARC Compilation)**
The SARC is the single functional agency and operations center for control and employment of the intelligence collection assets assigned to the SRIG or SRIG Detachment of a MAGTF. The SARC is composed of representatives of each subordinate unit of the SRIG or SRIG Detachment that is employed in an intelligence collection mission. The SARC is not a permanent agency and is established and activated during afloat operations when advance force or pre-assault surveillance, reconnaissance, or intelligence gathering missions of an amphibious operation will be conducted. The SARC will move ashore with the MAGTF Command Element (CE) and will be re-established in the vicinity of the MAGTF Command Post (CP) during subsequent operations ashore. The SARC receives collection taskings from the ATF JIC or Landing Force (MAGTF) CIC which equates to mission receipt. The SARC then issues a warning order to assigned SRIG units and prepares the execution order for the conduct of the intelligence collection missions. During the execution of collection operations, the SARC monitors intelligence reporting activities of deployed teams, maintains deployed unit/teams situation and oversees and coordinates re-supply and unit/team movement requirements.

6. FUNCTIONS:

(ARC Compilation)

* To receive collection taskings from the ATF JIC or the Landing Force (MAGTF) CIC and to formulate, issue, and execute appropriate plans, orders, and procedures for surveillance, reconnaissance, and intelligence collection operations conducted by assigned SRIG units.

* To prepare and submit for approval by the MAGTF G/S-2, SRIG courses of action and estimates of supportability for SRIG surveillance, reconnaissance, and intelligence operations conducted independently or in support of MAGTF or other designated elements.

* To conduct required coordination with appropriate ATF and Landing Force (MAGTF CE, ACE, GCE, and CSSE) elements for required operational, administrative, logistics (supply and embarkation), fire support, communications, and transportation (air and ground) support for deployed SRIG units/teams.

* To ensure that all deployed unit/team surveillance, reconnaissance, and intelligence reports are forwarded to the ATF JIC and/or the MAGTF CIC and other designated units in a timely manner.

* To provide initial correlation of perishable information and conduct limited Indications and Warning (I&W) reporting to MAGTF or other designated elements.

7. ESTABLISHMENT:

(ARC Compilation)

The decision to establish a SARC is based on the need to plan and coordinate the combined surveillance, reconnaissance, and intelligence collection operations of the SRIG or SRIG Detachment as a whole. In some cases, a determination may be made by mutual agreement between the SRIG Commander and the Landing Force (MAGTF) G/S2 that a SARC is not required and SRIG element reporting will terminate directly into the ATF JIC or Landing Force (MAGTF) CIC. When the SARC is established, the Landing Force (MAGTF) Collections Operations Officer is designated as the SARC OIC.

A. INITIATING AUTHORITY:

Commanding Officer or Detachment OIC, SRIG

B. CONTROLLING AUTHORITY:

Landing Force (MAGTF) G/S2

C. SUPERVISING AUTHORITY:

Landing Force (MAGTF) G/S-2 Collections Operations Officer

D. ORGANIZATIONAL STRUCTURE:

(FMFM 3-21, pg 14)

13.14)

(OH 3-22, pg 9-41A2)

(FMFRP 3-28, pg 14)

3.4.5)

- * Control Element (CE)
- * Force Reconnaissance Element (FRE)
- * Remotely Piloted Vehicle Element (RPVE)
- * Sensor Control and Management Platoon Element (SCAMPE)
- * Radio Battalion Element (RadBnE) (as required)
- * Human Intelligence Element (HUMINTE)
- * Force Imagery Interpretation Unit (FIIU) Element (FE)
- * Topographic Platoon Element (TPE)

E. MANNING:

(ARC Compilation)

The manning of the SARC is a joint effort between the Commanding Officer or Detachment OIC, SRIG and the Landing Force (MAGTF) G/S-2. The Landing Force (MAGTF) G/S-2 provides the Collection Operations Officer and the Collection Operations Chief to perform the duties of SARC OIC and SARC NCOIC respectively while the SRIG provides sufficient personnel and equipment to man the activated SARC elements required for deployed SRIG assets. A minimum of two 12 hour watch section for each activated SARC element is required.

F. LOCATION:

(ARC Compilation)

(1) AFLOAT:

- * *The SARC will be established on the designated Advance Force Flagship or in the ATF SACC if there is sufficient space in the SACC for SARC operations. At a minimum, the SARC should be established in a separate space in close proximity to the JIC, LFOC, and SACC.*

(2) ASHORE:

- * *The SARC will be established at the Landing Force (MAGTF) CP in close proximity to the Landing Force (MAGTF) CIC, COC, and S/EWCC.*

G. COORDINATION:

(ARC Compilation)

(1) HIGHER:

*SRIG/SRIG Detachment-CC (if established)
JIC (Afloat) SACC (Afloat)*

LFOC (Afloat) SASS (Afloat)
MAGTF CIC (Ashore) MAGTF COC (Ashore)

(2) ADJACENT:

MAFC	HDC	CSSOC
CIC (Afloat)	HLSP	SCC
TIC (Afloat)	LFSP	TCC
SSES (Afloat)	TACLOG GP (Afloat) SPINTCOMM CTR	
OCAC	ITOC	(SSES or SSCC)
S/EWCC	CDEC	
	CMEC	

(3) LOWER:

- * *Deployed SRIG units/teams*

H. COMMUNICATIONS CONNECTIVITY:

(ARC Compilation)

(1) HIGHER:

- * *Ships intercom, cctv, and dial telephone to elements on same ship (when afloat).*
- * *Ships GENSER Communications Center (SCC) for secure worldwide GENSER voice and teletype communications (when afloat).*
- * *Ships Signals Exploitation Space (SSES) for secure worldwide voice and teletype special intelligence communications (SPINTCOMM) including TACINTEL (when afloat).*
- * *Established tactical Special Security Communications Center (SSCC) for secure worldwide special intelligence communications (SPINTCOMM) (when established ashore).*
- * *LF secure and non-secure voice radio and wireline communications circuits (when established ashore).*

(2) ADJACENT:

- * *Ships intercom, cctv, and dial telephone to elements on same ship (when afloat).*
- * *Ships GENSER Communications Center (SCC) for secure GENSER voice and teletype communications to other ATF ships and/or units (when afloat).*

- * *LF secure and non-secure voice radio and wireline communications circuits (when established ashore).*

(3) **LOWER:**

- * *LF secure and non-secure voice radio communications circuits (when established ashore).*

8. **PRIMARY SYSTEMS EMPLOYED:**

[ARC Compilation]

The systems available for use by the SARC during advance force or pre-assault operations will depend on the type of ship. Generally, the SARC will have a combination of manual and automated systems (installed and portable) to plan, coordinate, and control SRIG surveillance, reconnaissance, and intelligence collection operations. Refer to the individual ships loading characteristics pamphlet and coordinate with the ships company intelligence and communications personnel for specific details. Some of the following systems may be available for use by the SARC during afloat operations:

- * *Amphibious Flagship Data System (AFDS)*
- * *Naval Tactical Data System (NTDS)*
- * *Integrated Tactical Amphibious Warfare Data System (ITAWDS) and subsystems*
- * *Improved Integrated Tactical Amphibious Warfare Data System (IMPV ITAWDS) and subsystems*
- * *AN/SYQ-9(V)3 - Naval Intelligence Processing System (NIPS)*
- * *IBM Compatible Portable Computer Systems*
- * *AN/USQ-90 - Position Location Reporting System (PLRS)*
- * *AN/TSQ-129 - Position Location Reporting System - Master Station / Alternate Master Station (PLRS-MS)*
- * *RT-1343/TSQ-129 - Position Location Reporting System - User Unit (PLRS-UU)*
- * *NAVSTAR Global Positioning System (GPS) user equipment*
- * *AN/PSC-2A - Digital Communications Terminal (DCT)*

During subsequent operations ashore, the SARC will employ both manual and the following portable automated systems:

- * *Intelligence Analysis System (IAS) Workstation*
- * *Tactical Combat Operations (TCO) software*
- * *IBM Compatible Portable Computer Systems*
- * *AN/USQ-90 - Position Location Reporting System*

(PLRS)

- * **AN/TSQ-129 - Position Location Reporting System - Master Station / Alternate Master Station (PLRS-MS)**
- * **RT-1343/TSQ-129 - Position Location Reporting System - User Unit (PLRS-UU)**
- * **NAVSTAR Global Positioning System (GPS) user equipment**
- * **AN/PSC-2A - Digital Communications Terminal (DCT)**
- * **Counter-Intelligence Equipment**
- * **Counter-Intelligence Communications System (CCS)**
- * **Technical Surveillance Countermeasures (TSCM) equipment**
- * **Tactical Remote Sensor System (TRSS) Phase III**
- * **Tactical Remote Sensor System (TRSS) Phase V**
- * **AN/USQ-80 - Interrogator/Transponder Set - Forward Pass**
- * **Remotely Piloted Vehicles (RPV) / Unmanned Aerial Vehicles (UAV) / EXDRONE**
 - * **Ground Control Station - GCS-2000**
 - * **Portable Control Station (PCS)**
 - * **Tracking Control Unit (TCU)**
 - * **Remote Receiving Station (RRS)**
- * **AN/UYK-83 or AN/UYK-85 (FMF-EUCE)**
- * **Tactical Video Transmission Systems (TVTS)**
- * **Various portable Secondary Imagery Dissemination Systems (SIDS)**
- * **Tactical Deception (TAC-D) Equipment**
- * **Various compartmented programs and or systems to conduct special reconnaissance and tactical deception operations.**
- * **Portable SATCOM systems providing secure voice, teletype, and facsimile communications.**
- * **Various single channel HF/VHF/UHF radio systems**

9. OPTIONAL SYSTEMS EMPLOYED:

(ARC Compilation)

Elements within the SRIG and from the JTF, Theater CINC, and rapid response national and/or SOF liaison teams employ a variety of portable computer, communications and surveillance systems that may be used in the SARC during operations afloat or ashore. The following optional systems may be used within the SARC:

- * **Tactical Video Transmission Systems (TVTS)**
- * **Portable Secondary Imagery Dissemination Systems (SIDS)**
- * **Various compartmented programs to conduct special reconnaissance**

and tactical deception operations.

10. **REPORTS/PRODUCTS PROVIDED:**

(ARC Compilation)

- * *SRIG Estimates of Supportability*
- * *SRIG Warning Orders*
- * *SRIG Operations Orders*
- * *SRIG Collection Plan*
- * *Surveillance, Reconnaissance, and Intelligence Information Reports obtained from SRIG deployed units/teams.*
- * *SRIG situation maps and overlays*
- * *Unevaluated Indications and Warning (I&W) Reports*
- * *SRIG Responses to Request for Intelligence Information (RRII)*

1. LONG TITLE: SHIP'S SIGNALS EXPLOITATION SPACE
2. SHORT TITLE: SSES
3. REFERENCES:
 - A. CMC MARINE CORPS COMMAND AND CONTROL MASTER PLAN (3 AUG 1987)
 - B. MCCDC MAGTF INTEROPERABILITY REQUIREMENTS CONCEPTS (MIRC) (4 MAY 1990)
 - C. NSSC C3I ANALYSIS REPORT (PMS 377) (13 JUNE 1986)
 - D. FMFM 3-21 MAGTF INTELLIGENCE OPERATIONS

4. MISSION:

(ARC Compilation)

To provide Signals Intelligence (SIGINT), Cryptologic Electronic Warfare Support Measures (CESM), and special intelligence communications (SPINTCOMM) support to the assigned Task Force Commander, ship's Commanding Officer, or other commands/agencies as directed.

5. DESCRIPTION:

(ARC Compilation)

The SSES is a designated, restricted access, shipboard space that provides the facilities, equipment, and personnel required to detect, classify, monitor, collect, record, evaluate, and disseminate selected foreign communications and non-communications information. The SSES provides intelligence information support, early threat warning, and rapid dissemination of other special intelligence Indications and Warning (I&W) information received through the activated Special Security Communications Center (SSCC) circuits maintained within the SSES. During amphibious operations, the SSES is augmented by designated landing force personnel to support the SIGINT and SPINTCOMM requirements of both the CATF and CLF during afloat operations. Landing force SSES augmentees conduct a phased withdrawal of the SSES as the landing force moves ashore leaving assigned SSES personnel to continue to support the ATF and other designated units/commands.

6. FUNCTIONS:

(ARC Compilation)

- * Conducts cryptologic operations with organic resources as directed.
- * Conducts cryptologic Electronic Warfare Support Measures (CESM) with organic resources as directed.

- * *Provides special intelligence information received from national, theater, and other task force cryptologic elements or activities to the JIC for integration into the overall intelligence effort of the force as directed.*

- * *Correlates, coordinates, collates, evaluates, and disseminates the tracking and event related Signals Intelligence operations to provide GENSER combat intelligence and Special Intelligence (SI) information as directed.*

- * *Maintains prioritized passive air, surface, subsurface, and AOA surveillance by exploiting signal emitters as directed.*

- * *Disseminates information and messages received via the Tactical Intelligence (TACINTEL) Information exchange system to on-board users via the best available means.*

- * *Supports the ships CIC in the functional tasks of detecting, classifying, tracking, and reporting potential threats to own ship.*

- * *Transmits Indications and Warning (I&W) information posing an immediate threat to own ship directly to the ships CIC.*

- * *Maintains close liaison and coordinates activities with CIC, JIC, and other designated agencies/units as directed.*

- * *Establishes circuits and maintains access to the Defense Special Security Communications System (DSSCS) through the integral Special Security Communications Center (SSCC).*

- * *During amphibious operations, provides cryptologic working spaces and facilities for landing force cryptologic personnel and ensures that landing force signals intelligence requirements are integrated into the overall Amphibious Task Force (ATF) cryptologic concept of operations.*

- * *During amphibious operations, ensures that appropriate procedures are developed for the complete withdrawal of landing force cryptologic personnel from the SSES without degrading cryptologic support to the overall ATF.*

7. ESTABLISHMENT:

(ARC Compilation)

Usually, SSES's are established on designated flagships, command ships, carriers, and other specified cruisers, and frigates of the Fleet. SSES personnel are drawn from the Naval Security Group Command and are administratively assigned to individual ship's company during the period of deployment. Each SSES has different capabilities depending on the individual ship type, configuration, and area of operation.

A. INITIATING AUTHORITY:

Fleet Commander-In-Chief (CINC)

B. CONTROLLING AUTHORITY:

Task Force Commander through the designated Signal Warfare Officer and/or the designated JIC officer (N/G/S-2).

C. SUPERVISING AUTHORITY:

Assigned SSES Division Officer or SSES Officer-In-Charge (OIC)

D. ORGANIZATIONAL STRUCTURE:

- * *Signals Warfare Officer*
- * *Assistant Force Cryptologic Coordinator (AFCC) (if assigned)*
- * *SSES Division Officer/SSES OIC*
- * *SSES Maintenance Section (1-2)*
- * *SSES Watch Sections (2-3)*
 - * *SSES Watch Supervisors/Analysts (3)*
 - * *SSES Intercept/Direction Finding (DF) Operators (3-12 as required)*
 - * *S/EWCC Watch Officer (if established)*
 - * *ITAWDS Operators (If equipped)*
 - * *FDDS Operators (if equipped)*
 - * *TACINTEL Operators (if equipped)*
- * *SSCC Watch Section*
 - * *S.I. Communications Supervisor*
 - * *S.I. Communications Operators (2-6)*

E. MANNING:

(ARC Compilation)

SSES's are not activated or manned on a full time basis. Manning of the SSES is accomplished by the Fleet or Task Force submitting validated requirements to Commander Naval Security Group (COMNAVSECGRU) for organic cryptologic and/or special intelligence communications (spintcomm) support. During amphibious operations the activated SSES's within the ATF are normally jointly manned by both ATF and landing force personnel until such time that the landing force phases ashore and the Commander Landing Force (CLF) assumes control for subsequent operations ashore. SSES activation and assignment policies vary within each Fleet operational area. In many cases, only the SSCC within the SSES is activated for routine deployments with organic intercept capabilities activated only during contingency operations when and if cryptologic personnel can quickly augment the assigned ship.

F. LOCATION:

(ARC Compilation)

(1) AFLOAT:

The exact location of the SSES depends on the type of ship and individual ship's configuration. On amphibious ships with command and control facilities, the SSES will normally be located on the same deck level and adjacent to the JIC, ship's CIC, SACC, SCC, and/or LFOC.

(2) ASHORE: Not Applicable in this situation.

G. COORDINATION:

(ARC Compilation)

(1) HIGHER:

- * *National Security Agency (NSA)*
- * *Theater Cryptologic Support Groups (CSG's)*
- * *Fleet Intelligence Centers (FICs)*
- * *Fleet Ocean Surveillance and Intelligence Centers/Facilities (FOSIC/FOSIF's)*
- * *Supporting Naval Security Group Activities*
- * *ATF Tactical Flag Command Center/Flag Plot (TFCC/FP)*
- * *ATF JIC*

(2) ADJACENT:

MAFC (afloat) LFOC
TIC (afloat) TACC (A)
CIC
S/EWCC
SARC (afloat)
OCAC (ashore)

(3) LOWER:

- * *None*

H. COMMUNICATIONS CONNECTIVITY:

(ARC Compilation)

(1) HIGHER:

- * *Ships intercom, cctv, and dial telephone to elements on same ship.*
- * *Ships GENSER Communication Center (SCC) for secure worldwide GENSER voice and teletype communications (if required).*
- * *Special Security Communications Center (SSCC) within (SSES) for*

secure worldwide voice and teletype special intelligence communications (SPINTCOMM) (if required).

- * *TACINTEL teletype circuit (if installed)*
- * *NSA SATCOM Tributary system for secure special intelligence voice and/or data communications (if installed)*
- * *Long Range Special Reporting and Analysis Circuit (L-SPRAC) (if activated) to other air, sea, and ground cryptologic elements within the theater of operation.*

(2) **ADJACENT:**

- * *Ships intercom, cctv, and dial telephone to elements on same ship.*
- * *Ships GENSER Communications Center (SCC) for secure GENSER voice and teletype communications to other ships, aircraft, and shore-based facilities.*
- * *Activated Landing Force secure and non-secure radio communications circuits.*
- * *Special Reporting and Analysis Circuit (SPRAC) to other air, sea, and ground cryptologic elements within the task force operational area.*

(3) **LOWER:**

- * *Not applicable in this situation.*

8. **PRIMARY SYSTEMS EMPLOYED:**

(ARC Compilation)

The systems employed within each SSES will depend on the type of ship used and the individual ships configuration. Generally, a SSES will have a minimum of sufficient intercept equipment for two (2) 24 hr collection positions with associated cryptologic computer and/or communications facilities and a combination of systems that will range from plotting boards to computer display systems. Refer to the specific ships loading characteristics pamphlet and coordinate with assigned Fleet N8 or SSES personnel for specific details. Some of the following systems may be found in an amphibious ship's SSES:

- * *Cryptologic Combat Support Console (CCSC)*
- * *AN/SRS-1 - Acquisition and Direction Finding Set (Combat DF)*
- * *Amphibious Flagship Data System (AFDS)*
- * *Naval Tactical Data System (NTDS)*
- * *Integrated Tactical Amphibious Warfare Data System (ITAWDS) and subsystems*

- * *Improved Integrated Tactical Amphibious Warfare Data System (IMPV ITAWDS) and subsystems*
- * *AN/SYQ-9(V)3 - Naval Intelligence Processing System (NIPS)*
- * *AN/USQ-64 (V)5 - Tactical Intelligence (TACINTEL) subsystem*
- * *AN/USQ-88(V)1 - Flag Data Display System (FDDS)*
- * *Closed Circuit Television (CCTV) Systems*

9. **OPTIONAL SYSTEMS EMPLOYED:**

(ARC Compilation)

Rapid response national cryptologic and/or Special Operations Force (SOF) cryptologic assets employ a variety of portable special intelligence and communications systems that might be utilized in the SSES due to the restrictive access and compartmented nature of the SSES. The following systems may be used to augment SSES operations:

- * *IBM Compatible Portable Computer Systems*
- * *Portable SATCOM systems providing secure voice, teletype, and facsimile communications.*
- * *Special cryptologic devices, receivers, recorders, and analytical systems*

10. **REPORTS/PRODUCTS PROVIDED:**

(ARC Compilation)

- * *Tactical Advisories (TACADS)*
- * *Non-Codeword Tactical Reports (NCW TACREPS)*
- * *Special Intelligence operational and technical reports*
- * *SIGINT estimates*
- * *SIGINT summaries*
- * *SIGINT plans, annexes, and appendices*
- * *SIGINT Indications and Warning (I&W) reports*

1. LONG TITLE: SIGNALS INTELLIGENCE / ELECTRONIC WARFARE COORDINATION CENTER
2. SHORT TITLE: S/EWCC
3. REFERENCES:
 - A. FMFM-3-21 MAGTF INTELLIGENCE OPERATIONS
 - B. OH 3-22 SURVEILLANCE, RECONNAISSANCE, AND INTELLIGENCE GROUP (SRIG)
 - C. FMFRP 3-28 TRI-MEF STANDING OPERATING PROCEDURES FOR FIELD INTELLIGENCE OPERATIONS (12 JULY 89)
 - D. MCCDC MAGTF INTEROPERABILITY REQUIREMENTS CONCEPTS (MIRC) (4 MAY 1990)
 - E. NSSC C3I ANALYSIS REPORT (PMS 377) (13 JUNE 1986)

4. MISSION: (FMFM 3-21, pg 14-18)
(OH 3-22, pg 4-19)

To coordinate the signals intelligence, electronic warfare, and communications-electronics activities of the force in order to identify and resolve potential conflicts.

5. DESCRIPTION: (ARC Compilation)

The S/EWCC is a staff agency established at the ATF or MAGTF level under the staff cognizance of the G/S/N-2 that is the focal point for all coordination required between the SIGINT, EW, and Communications-Electronics efforts within the force. The S/EWCC is the agency that ensures that friendly Electronic Countermeasures (ECM) activities does not conflict with friendly signal intelligence or communications-electronics operations. The S/EWCC is composed of representatives from the force G/S/N-2, G/S/N-3, G/N-6 or CEO, and appropriate liaison personnel from assigned or attached SIGINT/EW commands/units/sections.

6. FUNCTIONS:

(FMFM 3-21, pg 14-18)

(OH 3-22, pg 4-19)

- * To review the SIGINT appendix, the EW appendix and communications-electronics annex of plans and orders which have a direct impact on MAGTF operations, in order to identify potential conflicts among them and to determine their compatibility.
- * To coordinate SIGINT, EW, and communications-electronics efforts during execution by monitoring on-going operations to identify and resolve operational conflicts.
- * To provide the focal point for coordination of requests for EW support from MAGTF units and external agencies or activities.
- * To provide for the coordination of meaconing, intrusion, jamming, and interference (MIJI) program activities.
- * To review and evaluate recent SIGINT, EW, and communications-electronics plans, procedures, and actions to determine their compatibility and effectiveness.
- * To identify SIGINT, EW, and communications-electronics adjustments necessary to enhance operational support.

7. ESTABLISHMENT:

(ARC Compilation)

Formal establishment of the S/EWCC is not always necessary or in many cases desired, especially if the functions of SIGINT, EW, and communications-electronics coordination can be accomplished directly and informally by a small nucleus of personnel. The decision to establish a S/EWCC is based on the overall amount of SIGINT, EW, and communications-electronics detailed coordination required to accomplish the overall mission. Normally, the S/EWCC will be established at the Marine Expeditionary Brigade (MEB) level and above whenever SIGINT and EW units are involved or when SIGINT and EW objectives or activities are included in plans and orders.

A. INITIATING AUTHORITY:

(FMFM 3-21, pg 14-19)

Landing Force (MAGTF) Commander

B. CONTROLLING AUTHORITY:

(FMFM 3-21, pg 14-18)

Landing Force (MAGTF) G/S2

C. SUPERVISING AUTHORITY:

(FMFM 3-21, pg 14-19)

Designated S/EWCC Officer-In-Charge (OIC)

D. ORGANIZATIONAL STRUCTURE:

(FMFM 3-21, pg 14-19)

- * S/EWCC OIC (normally the MAGTF Special Intelligence Officer (SIO))
- * MAGTF SIO (if other than the S/EWCC OIC)

- * MAGTF Electronic Warfare Officer (EWO)
- * MAGTF G-6/CEO Representative
- * Radio Bn Liaison Officer
- * VMAQ Liaison Officer
- * Other Liaison Officers as required during Combined or Joint Operations.
- * S/EWCC assistants

E. MANNING:

(ARC Compilation)

Manning of the S/EWCC is the responsibility of the G/S/N-2 of the ATF or Landing Force (MAGTF). In actuality, S/EWCC manning must be a joint effort involving the the SRIG Commander or Detachment OIC, Radio Bn Commander or Detachment OIC, the ACE Commander, VMAQ Squadron Commander or OIC, and/or the Landing Force (MAGTF) and ATF Staff. A minimum of two 12 hour watch sections are required to sustain a fully functioning S/EWCC during amphibious operations or subsequent operations ashore.

F. LOCATION:

(ARC Compilation)

(1) AFLOAT:

* *The S/EWCC must be established within the confines of a designated Sensitive Compartmented Information Facility (SCIF) usually on the designated ATF Flagship within the SSES or JIC whichever has sufficient space for S/EWCC operations. At a minimum, the S/EWCC must be established in a secure space in close proximity to the SSES, JIC, CIC, and the JSCC (if established) or OSCC.*

(2) ASHORE:

* *The S/EWCC will be established at the Landing Force (MAGTF) CP in close proximity to the Landing Force (MAGTF) CIC, SARC, COC, OCAC and OSCC within the designated Tactical-Sensitive Compartmented Information Facility (T-SCIF).*

G. COORDINATION:

(ARC Compilation)

(1) HIGHER:

TFCC/FP (Afloat) MAGTF CC (if established)
JIC (Afloat) LFOC (Afloat)
MAGTF CIC (Ashore) MAGTF COC (Ashore)

(2) ADJACENT:

MAFC	HDC	CSSOC
CIC (Afloat)	HLSP	SCC
TIC (Afloat)	LFSP	TCC
SSES (Afloat)	TACLOG GP (Afloat)	SPINTCOMM CTR
OCAC	ITOC	(SSES or SSCC)
OSCC	CDEC	
	CMEC	

- (3) LOWER:
- * None

H. COMMUNICATIONS CONNECTIVITY: **(ARC Compilation)**

(1) HIGHER:

- * Ships intercom, cctv, and dial telephone to elements on same ship (when afloat).
- * Ships GENSER Communications Center (SCC) for secure worldwide GENSER voice and teletype communications (when afloat).
- * Ships Signals Exploitation Space (SSES) for secure worldwide voice and teletype special intelligence communications (SPINTCOMM) including TACINTEL (when afloat).
- * Established tactical Special Security Communications Center (SSCC) for secure worldwide special intelligence communications (SPINTCOMM) (when established ashore).
- * LF secure and non-secure voice radio and wireline communications circuits (when established ashore).

(2) ADJACENT:

- * Ships intercom, cctv, and dial telephone to elements on same ship (when afloat).
- * Ships GENSER Communications Center (SCC) for secure GENSER voice and teletype communications to other ATF ships and/or units (when afloat).
- * LF secure and non-secure voice radio and wireline communications circuits (when established ashore).

(3) LOWER:

- * *LF secure and non-secure voice radio communications circuits (when established ashore).*

8. PRIMARY SYSTEMS EMPLOYED:

(ARC Compilation)

The systems available for use by the S/EWCC in the JIC, SSES or other designated spaces when afloat will depend on the type of ship. Generally, the S/EWCC will have a combination of manual and automated systems (installed and portable) to coordinate SIGINT, EW, and communications-electronics activities. Refer to the individual ships loading characteristics pamphlet and coordinate with the ships company intelligence and communications personnel for specific details. Some of the following systems may be available for use by the S/EWCC during afloat operations:

- * *Amphibious Flagship Data System (AFDS)*
- * *Naval Tactical Data System (NTDS)*
- * *Integrated Tactical Amphibious Warfare Data System (ITAWDS) and subsystems*
- * *Improved Integrated Tactical Amphibious Warfare Data System (IMPV ITAWDS) and subsystems*
- * *AN/SYQ-9(V)3 - Naval Intelligence Processing System (NIPS)*
- * *AN/USQ-90 - Position Location Reporting System (PLRS)*
 - * *RT-1343/TSQ-129 - Position Location Reporting System - User Unit (PLRS-UU)*
- * *NAVSTAR Global Positioning System (GPS) user equipment*
- * *AN/PSC-2A - Digital Communications Terminal (DCT)*

During subsequent operations ashore, the S/EWCC will employ both manual and automated systems. The following system may be used within the S/EWCC:

- * *Intelligence Analysis System (IAS) Workstation*
- * *AN/UYK-83 or AN/UYK-85 (FMF-EUCE)*
- * *IBM Compatible Portable Computer Systems*
- * *NAVSTAR Global Positioning System (GPS) user equipment*
- * *AN/PSC-2A - Digital Communications Terminal (DCT)*

9. OPTIONAL SYSTEMS EMPLOYED:

(ARC Compilation)

Elements within the MAGTF and from the JTF, Theater CINC, and rapid response national and/or SOF liaison teams employ a variety of portable computer, communications and surveillance systems that

may be used in the S/EWCC during operations afloat or ashore. The following optional systems may be used within the S/EWCC:

- * IBM Compatible Portable Computer Systems
- * Portable SATCOM systems providing secure voice, teletype, or facsimile communications.

10. REPORTS/PRODUCTS PROVIDED:

(ARC Compilation)

- * S/EWCC reviews of MAGTF SIGINT, EW, and Communications-Electronics Orders, Annexes, and Appendices.
- * S/EWCC input to Enemy Electronic Warfare Threat assessments.
- * S/EWCC input to MAGTF Electronic Warfare estimates
- * Taboo circuit/frequency lists
- * Protected circuit/frequency lists
- * Guarded circuit/frequency lists
- * MLI reporting and program activities
- * Current information on organic Landing Force (MAGTF) communications and noncommunications equipment and frequencies.
- * Current status and capabilities of assigned Radio Bn assets
- * Current status and capabilities of assigned VMAQ assets
- * Current information, status, and capabilities of other SIGINT, EW, and communications-electronics units through attached liaison personnel during joint or combined operations.
- * S/EWCC unique situation maps and overlays
- * S/EWCC responses for ECM support and MLI reporting

1. LONG TITLE: SHIP'S COMBAT INFORMATION CENTER
2. SHORT TITLE: SHIP'S CIC
3. REFERENCES:
- | | | |
|----|-------|--|
| A. | MCCDC | MAGTF INTEROPERABILITY REQUIREMENTS CONCEPTS (MIRC) (4 MAY 1990) |
| B. | NSSC | C3I ANALYSIS REPORT (PMS 377) (13 JUNE 1986) |
| C. | CMC | MARINE CORPS COMMAND AND CONTROL MASTER PLAN (3 AUG 1987) |

4. MISSION: (ARC Compilation)
To control and coordinate own ship and (when directed) task force combat activities and to collect, display, evaluate, and disseminate tactical and combat information of primary concern to own ship.

5. DESCRIPTION: (ARC Compilation)
The ship's CIC is a designated shipboard space that provides the facilities, equipment, and personnel for control and coordination of its own ship's sensor and weapons systems.

6. FUNCTIONS: (ARC Compilation)
- * *Detects, identifies, and tracks aircraft and surface craft within the capabilities of own ship sensors.*
 - * *Disseminates tactical and combat informations obtained by own ship sensors.*
 - * *Inputs information into FDDS and ITAWDS.*
 - * *Controls and coordinates own ship and task force (when directed) surface actions.*
 - * *Controls and coordinates own ship and task force (when directed) antisubmarine warfare operations.*
 - * *Controls and coordinates own ship and task force (when directed) antiair warfare operations.*

- * *Controls and coordinates own ship passive and active electronic warfare (EW) operations.*
- * *Monitors electronic emission control (EMCON) compliance.*

7. ESTABLISHMENT:

(ARC Compilation)

CIC's are established on all ships of the Fleet and the personnel within the CIC are a normal section of ships company. CIC's have various capabilities depending on the individual ship type and configuration.

A. INITIATING AUTHORITY:

Ship's Commanding Officer

B. CONTROLLING AUTHORITY:

Ship's Operations Officer

C. SUPERVISING AUTHORITY:

Ship's Tactical Action Officer (TAO)

D. ORGANIZATIONAL STRUCTURE:

- * *Tactical Action Officer (TAO)*
- * *ASW Watch Officer (If equipped)*
- * *Sonar Watch Sections (If equipped)*
- * *Electronic Warfare Coordinator (EWC) (If equipped)*
- * *Radar Watch Sections*
- * *Fire Control Watch Sections*
- * *Plotters/Communicators/Assistants*

E. MANNING:

(ARC Compilation)

Manning of the CIC is accomplished by established Table of Organizations (T/O) and assignment policies for each ship. Personnel assignments are based on the type of ship and the installed sensor, weapons, and fire control configuration.

F. LOCATION:

(ARC Compilation)

(1) AFLOAT:

The exact location of the ship's CIC depends on the individual ship's configuration. On amphibious ships with command and control facilities, the CIC will be located on the same deck level and in close proximity to the JIC, SSES (if configured), SACC, SCC, and/or LFOC.

(2) ASHORE: Not Applicable in this situation.

G. COORDINATION: (ARC Compilation)

(1) HIGHER:

- * *Ship's bridge*
- * *ATF Tactical Flag Command Center/Flag Plot (TFCC/FP)*

(2) ADJACENT:

<i>SSES</i>	<i>LFOC</i>	<i>LFSP</i>
<i>JIC</i>	<i>SACC</i>	<i>TACLOG GP</i>
<i>S/EWCC</i>	<i>TACC (A)</i>	
<i>TIC</i>	<i>HDC</i>	
<i>SARC</i>		

(3) LOWER:

- * *None*

H. COMMUNICATIONS CONNECTIVITY: (ARC Compilation)

(1) HIGHER:

- * *Ships intercom, cctv, and dial telephone to elements on same ship.*
- * *Ships GENSER Communication Center (SCC) for secure worldwide GENSER voice and teletype communications (if required).*
- * *Ships Signals Exploitation Space (SSES) for secure worldwide voice and teletype special intelligence communications (SPINTCOMM) (if required).*

(2) ADJACENT:

- * *Ships intercom, cctv, and dial telephone to elements on same ship.*
- * *Ships GENSER Communications Center (SCC) for secure GENSER voice and teletype communications to other ATF ships.*
- * *Activated Landing Force secure and non-secure radio communications circuits.*

(3) LOWER:

- * Not applicable in this situation.

8. PRIMARY SYSTEMS EMPLOYED:

(ARC Compilation)

The systems employed by each CIC will depend on the type of ship used and the individual ships configuration. Generally, each CIC will have a minimum of a surface search radar monitor, and a combination of systems that will range from plotting boards to Sonar and Electronic Warfare systems. Refer to the specific ships loading characteristics pamphlet and coordinate with ships company CIC personnel for specific details. Some of the following systems may be found in an amphibious ship's CIC:

- * *Amphibious Flagship Data System (AFDS)*
 - * *Naval Tactical Data System (NTDS)*
 - * *Amphibious Support Information System (ASIS)*
- * *Integrated Tactical Amphibious Warfare Data System (ITAWDS) and subsystems*
- * *Improved Integrated Tactical Amphibious Warfare Data System (IMPV ITAWDS) and subsystems*
- * *AN/SYQ-9(V)3 - Naval Intelligence Processing System (NIPS)*
- * *AN/USQ-88(V)1 - Flag Data Display System (FDDS)*
- * *Closed Circuit Television (CCTV) Systems*
- * *AN/SSQ-82 (XN-)(V) - Multiplexed Unit for Transmission Elimination (MUTE)*

9. OPTIONAL SYSTEMS EMPLOYED:

(ARC Compilation)

Rapid response national and/or Special Operations Force (SOF) assets employ a variety of portable intelligence and communications systems that might be utilized in the CIC. Coordinate with ships company CIC personnel when these systems are planned to be used within the CIC. The following systems may be used to augment CIC operations:

- * *IBM Compatible Portable Computer Systems*
- * *Portable SATCOM systems providing secure voice, teletype, and facsimile communications.*

10. REPORTS/PRODUCTS PROVIDED:

(ARC Compilation)

- * *Radar activity (target detection and radar status) reports*
- * *Sonar activity (target detection and sonar status) reports*
- * *Own ship location reports*
- * *Friendly ship location reports*
- * *Electronic Warfare (EW) (passive and active) activity reports*

* *Own ship threat Indications and Warning (I&W) reports*

1. LONG TITLE: TARGET INFORMATION CENTER
2. SHORT TITLE: TIC
3. REFERENCES:
 - A. FMFM 3-21 MAGTF INTELLIGENCE OPERATIONS
 - B. NWP 22-2 SUPPORTING ARMS IN AMPHIBIOUS OPERATIONS
 - C. FMFM 7-1 FIRE SUPPORT COORDINATION
 - D. OH 6-2A FIRE SUPPORT COORDINATORS GUIDE
 - E. NSSC C3I ANALYSIS REPORT (PMS 377)
(13 JUNE 1986)
 - F. MCCDC MAGTF INTEROPERABILITY REQUIREMENTS CONCEPTS (MIRC) (4 MAY 1990)

4. MISSION:

(OH 6-2A, pg 7-3)

To keep the SACC informed of the status of high priority targets, maintain liaison between the SACC and the JIC, and prepare and maintain target cards, the target list and target bulletins.

5. DESCRIPTION:

(ARC Compilation)

The TIC is an element formed during the planning stages of an amphibious operation that consists of ATF and LF intelligence and supporting arms representatives. It is established within the CATF's Supporting Arms Coordination Center (SACC) and assists the SACC in the preparation of the ATF Target Lists, Target Bulletins and Target maps and overlays. The TIC processes target intelligence data received from the JIC and other sources to identify likely targets for attack by the ATF and supporting units. The TIC maintains constant contact with the LF Target Intelligence Officer (TGTINTELO) within the JIC to ensure that JIC Analysis and Production Section personnel are familiar with TIC requirements and that JIC personnel are cognizant of the duties and functions of TIC personnel. The TIC is normally dissolved when the LF Command Element is phased ashore; however, it must be prepared to resume normal operations if required.

6. FUNCTIONS:

(NWP 22-2, pg 3-14)

- * Keep SACC informed of the status of known high priority targets.
- * Maintain enemy situation overlay on master situation map.
- * Prepare and maintain target cards on all known targets.
- * Prepare the target list in accordance with information received from JIC and SAC.

- * Keep JIC informed of all intelligence information received over fire support nets.
- * Prepare target bulletins for dissemination.
- * Maintain close liaison with the air intelligence officer in the SACC.

(FMFM 3-21, pg 5-3)

* Advise the JIC on the employment of intelligence collection means for target intelligence purposes.

* Identify and describe targets in sufficient detail to allow the ATF TGTINTELO to analyze the targets for weapons employment.

* Consolidate and disseminate target intelligence to the SACC/FSCC and to Landing Force Elements as appropriate.

* Maintain target intelligence files and updated target intelligence data on the SACC and fire support coordination maps.

* Provide target intelligence to the ATF TGTINTELO for use in the preparation of the ATF target list.

7. ESTABLISHMENT:

(NWP 22-2, pg 7-8)

A. INITIATING AUTHORITY:

Commander Amphibious Task Force (CATF)

B. CONTROLLING AUTHORITY:

ATF Supporting Arms Coordinator (SAC)

C. SUPERVISING AUTHORITY:

ATF TGTINTELO

D. ORGANIZATIONAL STRUCTURE:

(ARC Compilation)

- * *ATF TGTINTELO*
- * *LF TGTINTELO*
- * *LF Target Information Officer (TIO)*
- * *Appropriate personnel from both the ATF and LF target information sections to form watch sections.*

E. MANNING:

(ARC Compilation)

Proper manning of the TIC is a dual responsibility of CATF and CLF. The TIC is normally composed of the ATF TGTINTELO and appropriate assistants from the ATF N2 section and the designated LF TIO and appropriate personnel from either the target intelligence section of the LF FSCC or the MAGTF Supporting Arms Special Staff (SASS). The designated LF TGTINTELO may be located in the JIC or with the TIC in the SACC, wherever it is determined that he can be most effective. In the case of

a MEB size MAGTF or smaller, the functions and responsibilities of the TIC may be performed collectively by JIC, SASS, and SACC personnel due to personnel limitations. In any event, the TIC or designated personnel performing TIC functions must be collocated with the SACC to provide effective targeting support.

F. LOCATION:

(NWP 22-2, PE 7-9)

- (1) **AFLOAT:** SACC
- (2) **ASHORE:** Dissolved when the Landing Force Command Element is displaced ashore.

G. COORDINATION:

(ARC Compilation)

- (1) **HIGHER:**
 - TFCC/FP* SACC
 - LFOC* SASS
 - JIC* FSCC (Ashore)
- (2) **ADJACENT:**
 - CIC* SACC - Naval Gunfire Section
 - SSES* SACC - Air Support Section
 - SARC*
 - S/EWCC*
- (3) **LOWER:**
 - * *SRIG Elements/assets that may be functionally incorporated into the TIC for SACC support to special operations (i.e. RPV platoon assets).*

H. COMMUNICATIONS CONNECTIVITY:

(ARC Compilation)

- (1) **HIGHER:**
 - * *Ships GENSER Communications Center (SCC) for secure GENSER voice and teletype communications to other ATF ships, aircraft, and LF elements.*
 - * *Ships intercom, cctv, and dial telephone to elements/functional centers on same ship.*
- (2) **ADJACENT:**

- * *Ships intercom, cctv, and dial telephone to elements/functional centers on same ship.*

(3) LOWER:

- * *LF GENSER voice communications circuits terminated in the SACC, JIC, and LFOC.*

8. PRIMARY SYSTEMS EMPLOYED:

(ARC Compilation)

The TIC will have access to all systems installed in the SACC and the JIC. The systems available in either the SACC or the JIC will depend on the type of ship used and the internal ships configuration. Generally, the TIC will use a combination of manual and automated systems to receive, compile, display, and disseminated target intelligence information. Some or all of the following systems may be available for TIC operations in the SACC:

- * *Integrated Tactical Amphibious Warfare Data System (ITAWDS) and subsystems*
- * *Improved Integrated Tactical Amphibious Warfare Data System (IMPV ITAWDS) and subsystems*
- * *Tactical Combat Operations (TCO) software*
- * *AN/USQ-90 - Position Location Reporting System (PLRS)*
 - * *RT-1343/TSQ-129 - Position Location Reporting System - User Unit (PLRS-UU)*
- * *AN/SXQ-8 (V)4 - Secure Closed Circuit Television (CCTV) system*
- * *Plotting Board, ship station, 36" X 36"*
- * *Plotting Board, tactical display, 60" X 60"*

9. OPTIONAL SYSTEMS EMPLOYED:

(ARC Compilation)

Embarked elements from both the ATF, LF and/or rapid response national and/or Special Operations Force (SOF) assets employ a variety of portable computer, communications and target acquisition type systems that may assist the TIC in target intelligence and information efforts. Coordinate with ATF N2, CEO, SACC, and LF G/S2 when these systems are planned to be used by the TIC in the SACC. The following systems may be used to augment TIC operations:

- * *IBM Compatible Portable Computer Systems*
- * *AN/PSC-2A - Digital Communications Terminal (DCT)*
- * *Tactical Video Transmission Systems (TVTS)*

10. REPORTS/PRODUCTS PROVIDED:

(ARC Compilation)

- * *Target Precedent List*

- * *Target Lists*
- * *Target Card Files*
- * *Target Cross-Index File*
- * *Target Bulletins (TARBULs)*
- * *Target Maps and Overlays*

1. LONG TITLE: LANDING FORCE OPERATIONS CENTER
2. SHORT TITLE: LFOC
3. REFERENCES: A. OH 3-31 MARINE AIR-GROUND TASK FORCE
COMMAND ELEMENT
COMMUNICATIONS
E. NSSC C3I ANALYSIS REPORT (PMS 377)
(13 JUNE 1986)

4. MISSION: (ARC Compilation)
To direct, control, coordinate, monitor, record, and supervise the activities of the landing force, especially during the assault phase of an amphibious operation.

5. DESCRIPTION: (ARC Compilation)
The LFOC is a designated shipboard space that provides the facilities and equipment for the collection, display, evaluation, and dissemination of information needed for command and control of the Landing Force by the CLF during all phases of amphibious operations. The LFOC supports landing force planning and staff actions pertaining to organization, training, and tactical operations while afloat and serves as the command center from which CLF exercises operational command and control over the Landing Force.

6. FUNCTIONS: (C3I Report, pg 4-3)
- * Exercise command, control, and coordination of the Landing Force.
 - * Develop, consolidate, and coordinate Landing Force requirements and requests requiring action by CATF.
 - * Monitor Landing Force operations to ensure timely action, coordination, and reporting. Display information and intelligence relating to the Landing Force situation during the landing and subsequent operations ashore.
 - * Plan, coordinate, and supervise activities pertaining to the organization, training, and operations of the Landing Force.
 - * Working through the Landing Force Fire Support Officer (FSO)/Ground Combat Element (GCE) Fire Support Coordinator (FSC) in the SACC, ensure that air,

artillery, and naval surface fire support (NSFS) missions are coordinated with Landing Force maneuver forces.

- * Monitor/guard appropriate Landing Force radio circuits.

7. ESTABLISHMENT:

(ARC Compilation)

The LFOC space is designated and established during embarkation of the landing force and is activated when required to conduct amphibious operations or exercises.

A. INITIATING AUTHORITY:

CLF

B. CONTROLLING AUTHORITY:

CLF

C. SUPERVISING AUTHORITY:

LF G/S-3

D. ORGANIZATIONAL STRUCTURE:

- * *LF Operations Officer (G/S-3)*
- * *LF Operations Chief*
- * *LFOC Watch Officers*
- * *LFOC Asst Watch Officers*
- * *LFOC Watch Supervisors*
- * *LFOC Intelligence Watch Section*
- * *ITAWDS TIPS Operators*
 - * *ITAWDS input/output operator*
 - * *ITAWDS large screen display operator*
- * *FDDS Operators (provided by CATF)*
- * *PLRS Operators*
- * *TCO Operators*
- * *Radio-Telephone Operators*
- * *Messenger/Status Board personnel*

E. MANNING:

(ARC Compilation)

Personnel to man the LFOC are primarily drawn from the LF command element. Additional personnel required to augment the LFOC may be drawn from other LF assets. The LFOC must be manned with sufficient personnel to sustain extended 24 hr operations. Normally two, 12 hr watch sections are required.

F. LOCATION:

(ARC Compilation)

(1) AFLOAT:

* *The LFOC will be located on the ship where the CLF can control the operations of the landing force, normally the designated ATF flagship.*

(2) ASHORE:

(ARC Compilation)

* *The LFOC is not established ashore. The LF (MAGTF) COC assumes the functions of the LFOC and absorbs LFOC personnel and equipment during LF operations ashore.*

G. COORDINATION:

(ARC Compilation)

(1) HIGHER:

- * *ATF TFCC/FP*
- * *JTF Joint Operations Center (JOC)*
- * *Theater CinC Operations Center*
- * *Airborne Command, Control, and Communications (ABCCC) systems (if utilized)*
- * *American Embassy (if applicable)*

(2) ADJACENT:

<i>JIC</i>	<i>SACC</i>	<i>LFSP</i>	<i>SCC</i>
<i>SARC</i>	<i>TACC (A)</i>	<i>TACLOG GP</i>	
<i>SSES</i>	<i>HDC</i>		
<i>CIC</i>			
<i>TIC</i>			

- * *Other elements of the LF in Joint Operations*

(3) LOWER:

- * *All subordinate (assigned and attached) units under LF control*

H. COMMUNICATIONS CONNECTIVITY:

(ARC Compilation)

(1) HIGHER:

- * *Ships intercom, cctv, and dial telephone to elements on the same ship.*
- * *Ships GENSER Communications Center for secure worldwide GENSER voice and teletype communications.*

(2) ADJACENT:

- * *Established secure and non-secure LF GENSER voice radio and wire circuits.*

(3) LOWER:

- * *Established secure and non-secure LF GENSER voice radio and wire circuits.*

8. PRIMARY SYSTEMS EMPLOYED:

(ARC Compilation)

The systems available to the LFOC will depend upon the type of ship used and the individual ship's configuration. Generally, the LFOC will use a combination of manual and automated systems such as manually plotted situation maps and voice/digital radio communications and computer information and display systems. Some or all of the following systems may be available to support the functions of the LFOC:

- * *Integrated Tactical Amphibious Warfare Data System (ITAWDS) and subsystems*
- * *Improved Integrated Tactical Amphibious Warfare Data System (IMPV ITAWDS) and subsystems*
- * *Amphibious Flagship Data System (AFDS)*
 - * *Naval Tactical Data System (NTDS)*
- * *AN/SYQ-7 (V) () - Navy Modular Automated Communications System (NAVMACS)*
- * *Tactical Combat Operations (TCO) software*
- * *AN/USQ-90 - Position Location Reporting System (PLRS)*
 - * *RT-1343/TSQ-129 - Position Location Reporting System - User Unit (PLRS-UU)*
- * *NAVSTAR Global Positioning System (GPS) user equipment*
- * *AN/USQ-88(V)1 - Flag Data Display System (FDDS)*
- * *AN/SXQ-8 (V) - Closed Circuit Television System (CCTV)*
- * *AN/PSC-2A - Digital Communications Terminal (DCT)*

9. OPTIONAL SYSTEMS EMPLOYED:

(ARC Compilation)

LF, JTF, Theater CINC and rapid response national and/or Special Operations Force (SOF) liaison teams employ a variety of portable computer and communications systems that may be utilized in the LFOC during contingency and joint operations. The following systems may be used within the LFOC in these circumstances:

- * *IBM Compatible Portable Computer Systems*

- * *AN/UYK-83 or AN/UYK-85 (FMF-EUCE)*
- * *Portable SATCOM systems providing secure voice, teletype, and facsimile communications.*
- * *Tactical Video Transmission Systems (TVTS)*

10. **REPORTS/PRODUCTS PROVIDED:**

(ARC Compilation)

- * *LF operational estimates*
- * *LF Operation plans, orders, and annexes.*
- * *LF situation reports*
- * *LF status reports*
- * *LF situation maps and overlays*
- * *Combat information reports (as required)*
- * *Air defense alerts*
- * *Weather data reports*
- * *NBC events, attacks, and incident reports*

1. LONG TITLE: TACTICAL AIR CONTROL CENTER (Afloat)
2. SHORT TITLE: TACC(A)
3. REFERENCES:
- | | | |
|----|----------|--|
| A. | NWP 22-2 | SUPPORTING ARMS IN AMPHIBIOUS OPERATIONS |
| B. | OH 1-100 | JOINT DOCTRINE FOR LANDING FORCE OPERATIONS |
| C. | NSSC | C3I ANALYSIS REPORT (PMS 377)
(13 JUNE 1986) |
| D. | MCCDC | MAGTF INTEROPERABILITY REQUIREMENTS CONCEPTS (MIRC) (4 MAY 1990) |

4. MISSION: (ARC Compilation)
To coordinate and control all tactical aircraft, antiaircraft weapons assignments, and air warning functions within the designated task force objective area.

5. DESCRIPTION: (ARC Compilation)
(NWP 22-2, pg. 4-5)
The TACC is the primary air space control agency within a designated area of responsibility from which all air operations supporting a naval or joint task force are controlled. The TACC controls air support and antiair warfare means to include fighter and attack aircraft, surface-to-air missiles (SAM), antiaircraft artillery (AAA), and air warning facilities. Whenever there are two or more afloat air control agencies functioning within the objective area, one of the agencies is designated as the TACC and the other air control agencies are designated as TADCs.

6. FUNCTIONS: (ARC Compilation)

- * *To receive and maintain continuous, complete information on the air situation to include surface and ground combat information essential to the air effort.*
- * *To make the most effective use of every aircraft assigned to support the task force.*
- * *To ensure an integrated defense network for task force ships and troops against:*
 - * *Enemy air attack, in conjunction with the AAW commander (AAWC), by monitoring, evaluating, and reviewing air threats to the force, making weapons assignments, employing aircraft on combat air patrol (CAP), using airborne electronic equipment, and by coordinating the various*

AAW forces activities. *Actual control of AAW aircraft may be delegated to the assigned AAWC to provide AAW protection to the force.*

* *Enemy submarine attack, in conjunction with the antisubmarine warfare commander (ASWC), by employing ASW aircraft on antisubmarine patrol (HS,HSL,VP and VS) and coordinating their operations with those of surface craft operating on ASW missions. Actual control of ASW aircraft may be delegated to the assigned ASWC to provide protection to the force.*

* *Enemy surface attack, in conjunction with the antisurface warfare commander (ASUWC), by controlling and coordinating the activities of all aircraft in the objective area with friendly surface forces. Actual control of ASUW aircraft may be delegated to the assigned ASUWC to provide ASUW protection to the force.*

* *To provide close air support (CAS) and other air support as requested by the landing force, giving pilots complete and timely briefings on the targets to be attacked, types of strikes desired, manner in which attacks are to be made, and the location of friendly front-line positions.*

* *To consolidate and coordinate air support requirements with supporting air forces, supplying the latest information and intelligence to carrier- and land-based air forces scheduled to execute support missions.*

* *To monitor and coordinate all helicopter operations through the Helicopter Direction Center (HDC).*

* *To coordinate and/or control all air traffic in the area of responsibility to protect friendly aircraft from collision, provide air navigational assistance, provide assistance to aircraft in emergency situations, and assist in early identification of enemy aircraft the area.*

* *To notify affected agencies and brief pilots as required when diverting aircraft from scheduled missions to meet other higher priority requirements.*

* *To provide flight information to aircraft and to other air control agencies, to include clearances, changes in flight plans or rendezvous points, and other advisory information.*

* *To coordinate task force Search And Rescue (SAR) operations.*

* *To provide air support coordination (ASC) to advise SACC/FSCC of close air support assets available, including weapon load, fuel status, and other pertinent data which will aid him in supporting arms assignments/coordination.*

7. ESTABLISHMENT:

(NWP 22-2, pg 4-4)

A. INITIATING AUTHORITY:

CATF

B. CONTROLLING AUTHORITY:

Tactical Air Officer (TAO)

C. **SUPERVISING AUTHORITY:**

Tactical Air Controller (TAC)

D. **ORGANIZATIONAL STRUCTURE:**

- * Tactical Air Officer
- * Tactical Air Controller
- * Air Traffic Control Section
- * Air Support Control Section
- * Helicopter Coordination Section
- * Antiair Warfare Section
- * Plans and Support Section

E. **MANNING:**

(ARC Compilation)

All personnel come from within the assigned ships company of the designated aircraft carrier supporting the task force operation augmented as required by landing force aviation assets.

F. **LOCATION:**

(NWP 22-2)

(1) **AFLOAT:**

TF Flagship or designated aircraft carrier

(2) **ASHORE:**

Not established ashore.

G. **COORDINATION:**

(ARC Compilation)

(1) **HIGHER:**

- * *Designated Theater/Joint Force Air Component
Commander*
- * *TFCC/FP*

(2) **ADJACENT:**

*JIC SACC
CIC LFOC
TIC
SSES*

(3) **LOWER:**

- * *HDC*
- * *TADC*
- * *TAOC*
- * *DASC*
- * *All aircraft and antiaircraft weapons and air warning units/activities*

within the designated task force area of operations.

H. COMMUNICATIONS CONNECTIVITY:

(ARC Compilation)

(1) HIGHER:

- * *Ships intercom, cctv, and dial telephone to elements on the same ship.*
- * *Ships Communications Center (SCC) for secure and non-secure worldwide GENSER voice and teletype communications.*

(2) ADJACENT:

- * *Ships Communications Center (SCC) for secure and non-secure worldwide GENSER voice and teletype communications.*
- * *Established task force secure and non-secure voice and data radio circuits.*

(3) LOWER:

- * *Ships Communications Center (SCC) for secure and non-secure worldwide GENSER voice and teletype communications.*
- * *Established task force secure and non-secure voice and data radio circuits.*

8. PRIMARY SYSTEMS EMPLOYED:

(ARC Compilation)

The systems employed by each TACC (A) will depend on the type of ship used and the individual ships configuration. Generally each TACC (A) will have a combination of systems that will vary from manually plotted situation maps and voice radio communications systems to sophisticated computer display and high speed digital communications systems. Refer to the specific ships loading characteristics pamphlet and coordinate with ATF and/or ships company communications or operations personnel for specific details. Some or all of the following systems may be available within a TACC (A):

- * *Amphibious Flagship Data System (AFDS)*
- * *Naval Tactical Data System (NTDS)*
- * *Amphibious Support Information System (ASIS)*
- * *Integrated Tactical Amphibious Warfare Data System (ITAWDS) and subsystems*

- * *Improved Integrated Tactical Amphibious Warfare Data System (IMPV ITAWDS) and subsystems*
- * *AN/USQ-88(V)1 - Flag Data Display System (FDDS)*
- * *Airborne Tactical Data System (ATDS)*
- * *Shipboard MTACCS Interface Controller (SMIC)*

9. **OPTIONAL SYSTEMS EMPLOYED:**

(ARC Compilation)

- * *None*

10. **REPORTS/PRODUCTS PROVIDED:**

(ARC Compilation)

- * *Enemy and friendly air situation and surveillance reports*
- * *Air defense alert conditions*
- * *Strike and Close Air Support mission briefings*
- * *Friendly air location reports to anti-air and air defense activities/units*
- * *Flight information, advisories, clearances, and changes in flight plans for designated area of responsibility*
- * *Navigational assistance to all friendly aircraft*
- * *General route assignments for aircraft approach to and retirement from the designated area of responsibility.*
- * *Air mission results, target intelligence, weapon and unit status, and engagement results and/or reports.*
- * *NBC events/incident reports*

1. LONG TITLE: HELICOPTER DIRECTION CENTER
2. SHORT TITLE: HDC
3. REFERENCES:
- A. JCS PUB 1 DOD DICTIONARY OF MILITARY AND ASSOCIATED TERMS
 - B. FMFM 3-31 MARINE AIR-GROUND TASK FORCE COMMAND ELEMENT COMMUNICATIONS
 - C. FMFM 5-3 ASSAULT SUPPORT HELICOPTER TACTICAL MANUAL
 - D. OH 5 THE MARINE AVIATION COMBAT ELEMENT
 - E. MCCDC MAGTF INTEROPERABILITY REQUIREMENTS CONCEPTS (MIRC) (4 MAY 1990)

4. MISSION:

(ARC Compilation)

To direct and control the conduct of helicopter operations by helicopter units and ships with helicopter landing platforms within the assigned area.

5. DESCRIPTION:

(ARC Compilation)

The HDC is the primary control agency for the direction of all helicopters and support aircraft in the designated control area. The HDC is a subordinate agency to the TACC (A) within the Navy Tactical Air Control System and is established only during afloat operations. The HDC is not a specified Landing Force (MAGTF) or joint agency, although in most cases, landing force liaison personnel will be present and integrated into HDC operational spaces. During amphibious operations the HDC must conduct continuous coordination with the landing force DASC in the control of helicopter operations during the ship to shore movement. After control of landing force aviation is passed ashore, the HDC will assist the DASC as necessary in controlling helicopter activities within the Amphibious Objective Area (AOA) and will be prepared to assume full control if required.

6. FUNCTIONS:

(FMFM 5-3, pg 10-7)

- * Operate under the overall direction of the TACC (A) and under the operational control of the helicopter transport group/unit commander.
- * Control the movement of all helicopters operating within its assigned control area in accordance with the operation plan.
- * Control escort aircraft when directed by the TACC (afloat).

- * Maintain a continuous radar plot of all aircraft operating within its assigned control area.
- * Receive requests for helicopter employment and implement response within limits specified by operation orders or as directed by the TACC (afloat).
- * Maintain and report to TACC (afloat) the status and location of assigned helicopters.
- * Advise TACC (afloat) on all matters pertaining to the movement of helicopters within its assigned control area which may require coordination with supporting arms.
- * Monitor the operations of the Helicopter Coordinator (airborne) (HC(A)).
- * Coordinate all changes to the Helicopter Employment and Assault Landing Table (HEALT) with the Helicopter Logistics Support Center (HLSC).

7. ESTABLISHMENT:

(ARC Compilation)

A. INITIATING AUTHORITY:

Commander Amphibious Task Force (CATF)

B. CONTROLLING AUTHORITY:

Tactical Air Officer (TAO)

C. SUPERVISING AUTHORITY:

Helicopter Director

D. ORGANIZATIONAL STRUCTURE:

(OH 3-31, pg 3-7)

- * Helicopter Director
- * Helicopter Direction net(s) Officer
- * Helicopter Air Controller
- * Air Operations Personnel
- * *Ships company communications personnel as required*

E. MANNING:

(ARC Compilation)

The HDC is manned by Naval personnel provided by the CATF and ships company. Landing force liaison personnel will augment the HDC as necessary.

F. LOCATION:

(PMF 5-3, pg 10-7)

(1) AFLOAT:

Aboard the Helicopter Transport Group/Unit Commander's flagship.

- (2) **ASHORE:**
Not established ashore.

G. COORDINATION: **(ARC Compilation)**

- (1) **HIGHER:**
TFCC/FP
TACC (A)

- (2) **ADJACENT:**
- | | | | |
|-------------|-------------|------------------|------------|
| <i>JIC</i> | <i>LFOC</i> | <i>HLSC</i> | <i>SCC</i> |
| <i>CIC</i> | <i>SACC</i> | <i>LFSP</i> | |
| <i>TIC</i> | <i>FSCC</i> | <i>TACLOG GP</i> | |
| <i>SSES</i> | <i>DASC</i> | | |
| <i>SARC</i> | | | |
- * *Other Helicopter Transport Group Carriers*

- (3) **LOWER:**
- * *TACP's*
 - * *LZ Control Teams*
 - * *Helicopters and escort aircraft*

H. COMMUNICATIONS CONNECTIVITY: **(ARC Compilation)**

- (1) **HIGHER:**
- * *Ships intercom, cctv, and dial telephone to elements on the same ship.*
 - * *Ships Communications Center (SCC) for secure worldwide GENSER voice and teletype communications.*

- (2) **ADJACENT:**
- * *Ships Communications Center (SCC) for secure worldwide GENSER voice and teletype communications.*
 - * *Established task force secure and non-secure voice and data radio circuits.*

(3) LOWER:

- * *Ships Communications Center (SCC) for secure and non-secure worldwide GENSER voice and teletype communications.*
- * *Established task force secure and non-secure voice and data radio circuits.*

8. PRIMARY SYSTEMS EMPLOYED:

(ARC Compilation)

The systems employed by each HDC will depend on the type of ship used and the individual ships configuration. Generally an HDC will have a combination of systems that will vary from manually plotted situation maps and voice radio communications systems to sophisticated computer display and high speed digital communications systems. Refer to the specific ships loading characteristics pamphlet and coordinate with ATF and/or ships company communications or operations personnel for specific details. Some or all of the following systems may be available within a HDC:

- * *Amphibious Flagship Data System (AFDS)*
 - * *Naval Tactical Data System (NTDS)*
 - * *Amphibious Support Information System (ASIS)*
- * *Integrated Tactical Amphibious Warfare Data System (ITAWDS) and subsystems*
- * *Improved Integrated Tactical Amphibious Warfare Data System (IMPV ITAWDS) and subsystems*
- * *AN/USQ-88(V)1 - Flag Data Display System (FDDS)*
- * *Airborne Tactical Data System (ATDS)*
- * *Shipboard MTACCS Interface Controller (SMIC)*

9. OPTIONAL SYSTEMS EMPLOYED:

(ARC Compilation)

- * *None*

10. REPORTS/PRODUCTS PROVIDED:

(ARC Compilation)

- * *Status and locations of all helicopters within assigned area of responsibility.*
- * *Advisories/notices on flight plan changes.*
- * *Aerial observer reports received from inflight helicopter crews*

1. LONG TITLE: SUPPORTING ARMS COORDINATION CENTER
2. SHORT TITLE: SACC
3. REFERENCES:
- | | | |
|----|--------------|---|
| A. | JCS PUB 3-02 | JOINT DOCTRINE FOR AMPHIBIOUS OPERATIONS |
| B. | NWP 22-2 | SUPPORTING ARMS IN AMPHIBIOUS OPERATIONS |
| C. | FMFM 7-1 | FIRE SUPPORT COORDINATION |
| D. | OH 6-2A | FIRE SUPPORT COORDINATORS GUIDE |
| E. | NSSC | C3I ANALYSIS REPORT (PMS 377)
(13 JUNE 1986) |
| F. | MCCDC | MAGTF INTEROPERABILITY REQUIREMENTS CONCEPTS (MIRC)
(4 MAY 1990) |

4. MISSION:

(ARC Compilation)

To plan, coordinate, and control, all supporting arms fire of the ATF and LF until such time that the LF FSCC has been established ashore and fire support responsibility for the LF is passed by CATF to CLF.

5. DESCRIPTION:

(C3I RPT, pg 4-11)

The SACC is the agency through which CATF exercises overall coordination of direct air support (DAS), artillery fire, close air support (CAS), and naval surface fire support. The SACC provides the facilities for CATF and CLF staffs, working in close coordination and cooperation, to collect, display, and evaluate, ~~army~~ intelligence and operational data. Evaluated data and orders are disseminated to other amphibious control center functional areas within the ATF and externally to other controlling, coordinating, and delivering agencies to coordinate and control supporting arms.

6. FUNCTIONS:

(C3I RPT, pg 4-11)

- Determine fire support requirements and prepare integrated fire support plans.
- Monitor and coordinate fire support for all components participating in an amphibious operation.
- Plan and implement fire support control and coordination measures.

- * Control the execution of the naval surface gunfire support plan.
- * Direct the assignment of naval surface gunfire support ships.
- * Direct/approve the assignment of CAS and DAS missions.
- * Assess target damage.
- * Maintain the target list.
- * Maintain a display and record of the status/availability of supporting arms and the amphibious objective area including control and coordination measures.
- * Control Forward Area Air Defense (FAAD) section(s).

7. ESTABLISHMENT:

(NWP 22-2, pg 7-1)

Upon the initiation of planning, the ATF commander (and attack group and/or advance force commander as appropriate) establishes a SACC.

A. INITIATING AUTHORITY:

(NWP 22-2, pg 7-1)

CATF

B. CONTROLLING AUTHORITY:

(ARC)

CATF

C. SUPERVISING AUTHORITY:

(NWP 22-2, pg 7-1)

8-5

Supporting Arms Coordinator (SAC)

D. ORGANIZATIONAL STRUCTURE:

(ARC Compilation)

- * **SAC**
- * **Naval Gunfire Section**
- * **Air Support Section**
- * **Target Information Center (TIC)**
- * **SASS/FSCC/FSE Liaison personnel**

E. MANNING:

(ARC Compilation)

Manning of the SACC is a dual responsibility of the CATF and CLF. Notional manning and parent organization for SACC personnel is as follows:

- * **SAC (CATF)**
- * **Fire Support Coordinator (FSC) (CLF - MAGTF SASS and/or GCE FSCC)**
- * **Air Support Coordinator (ASC) (CATF)**
- * **Air Officer (AO) (MAGTF SASS and/or GCE FSCC)**
- * **Naval Gunfire Control Officer (NGFCO) (CATF)**
- * **Naval Gunfire Officer (NGFO) (CATF)**

- * *Naval Gunfire Support Officer (NGFSO) (CATF)*
- * *LF Fire Support Officer (LFFSO) (CLF - MAGTF SASS and/or GCE FSCC)*
- * *LF Artillery Officer (LFARTYO) (CLF - MAGTF SASS and/or GCE FSCC)*
- * *ATF Target Intelligence Officer (ATF TGTINTELO) (CATF)*
- * *LF Target Information Officer (LF TIO) (CLF - MAGTF SASS and/or GCE FSCC)*
- * *Assistant Amphibious Communications Officer (AACO) (CATF)*
- * *Appropriate communications/operator/plotter personnel from both the ATF and LF to operate SACC (and TIC) systems and maintain a minimum of two 12 hour watch sections. (approximately 20 - 24 personnel)*

F. LOCATION:

(ARC Compilation)

(1) AFLOAT:

The exact location of the SACC will depend upon the type of ship and individual ships' configuration. Generally, the SACC will be located on the same deck level and in close proximity to the JIC, ships' CIC, and LFOC spaces.

(2) ASHORE: Not Applicable in this situation.

G. COORDINATION:

(ARC Compilation)

(1) HIGHER:

- * *ATF TFCC/FP*
- * *Theater/JTF Airborne Command, Control, and Communications (ABCCC) systems (if employed)*

(2) ADJACENT:

<i>JIC</i>	<i>LFOC</i>	<i>LFSP</i>
<i>CIC</i>	<i>TACC (A)</i>	<i>TACLOG GP</i>
<i>SARC</i>		
<i>SSES</i>		
<i>S/EWCC (Afloat)</i>		

(3) LOWER:

- * *TIC*
- * *Designated ships, aircraft, units, providing fire support for the ATF.*

H. COMMUNICATIONS CONNECTIVITY:

(ARC Compilation)

(1) HIGHER:

- * *Ships intercom, cctv, and dial telephone to elements on same ship.*
- * *Ships GENSER Communications Center (SCC) for secure GENSER voice and/or teletype communications to ashore, afloat, or airborne elements of the Theater/JTF Commander.*

(2) ADJACENT:

- * *Ships intercom, cctv, and dial telephone to elements on same ship.*
- * *Ships GENSER Communications Center (SCC) for secure GENSER voice and/or teletype communications to other ships and aircraft of the ATF.*
- * *LF GENSER secure voice communications circuits to LF units established ashore.*

(3) LOWER:

- * *Ships intercom, cctv, and dial telephone to elements on same ship.*
- * *Ships GENSER Communications Center (SCC) for secure GENSER voice and/or teletype communications to other fire support ships and aircraft.*
- * *LF GENSER secure voice communications circuits to LF units established ashore.*

8. PRIMARY SYSTEMS EMPLOYED:

(ARC Compilation)

The systems employed in the SACC will vary from ship to ship. Generally, each SACC will have a combination of manual plotting type systems to automated fire support and control systems. Refer to the specific ships loading characteristics pamphlet and coordinate with ships company communications and ATF staff fire support personnel for specific systems. The following systems are installed in SACC spaces on the LHD-1:

- * *Integrated Tactical Amphibious Warfare Data System (ITAWDS) and subsystems*
- * *Improved Integrated Tactical Amphibious Warfare Data System (IMPV ITAWDS) and subsystems*
- * *Tactical Combat Operations (TCO) software*
- * *Marine Flexible Fire Support System (FIREFLEX)*
- * *AN/USQ-90 - Position Location Reporting System (PLRS)*
- * *RT-1343/TSQ-129 - Position Location Reporting System - User Unit (PLRS-UU)*
- * *NAVSTAR Global Positioning System (GPS) user equipment*

- * *AN/SXQ-8 (V)4 - Secure Closed Circuit Television (CCTV) system*
- * *Plotting Board - 36" X 36" (quantity - 11)*
- * *Plotting Board - 60" X 60" (quantity - 3)*

9. **OPTIONAL SYSTEMS EMPLOYED:**

(ARC Compilation)

Elements from the JTF, Theater CINC, and rapid response national and/or SOF liaison teams employ a variety of portable computer, communications, and target acquisition systems that may be temporarily used in the SACC. Coordinate with the ATF CEO, SAC, and LF elements when these systems are planned to be used within the SACC. The following optional systems may be used within the SACC:

- * *IBM Compatible Portable Computer Systems*
- * *Tactical Video Transmission Systems (TVTS)*
- * *Various target acquisition systems that may enhance fire support operations.*

10. **REPORTS/PRODUCTS PROVIDED:**

(ARC Compilation)

- * *Fire support Plans/Orders/Annexes/Appendices*
- * *Fire support products, messages, reports.*
- * *Fire Support Coordination Map*
- * *Scheme of Maneuver/fire support coordination measures overlay*
- * *Friendly situation (location of friendly units and target acquisition assets) overlay*
- * *Targets overlay*
- * *Preplanned fires/programs of fire/special purpose overlays*

1. LONG TITLE: SUPPORTING ARMS SPECIAL STAFF

2. SHORT TITLE: SASS

3. REFERENCES:

A.	FMFM 2	THE MARINE AIR-GROUND TASK FORCE
B.	FMFRP 3-32	STANDING OPERATING PROCEDURES FOR COMMUNICATIONS AND COMPUTER SYSTEMS
C.	OH 6-2A	FIRE SUPPORT COORDINATORS GUIDE
D.	MCCDC	MAGTF INTEROPERABILITY REQUIREMENTS CONCEPTS (MIRC) (4 MAY 1990)

4. MISSION: (ARC Compilation)

To monitor fire support aspects of the ground combat situation and to plan and coordinate those fire support activities with higher, adjacent and supporting commands which affect the LF as a whole.

5. DESCRIPTION: (ARC Compilation)

The SASS is a collective term for the group of personnel that comprise the landing force's artillery, air, naval gunfire, target information officers and their assistants or augmentees. The SASS is the CLF's primary advisors for supporting arms issues that can significantly affect the overall LF mission. It supports and augments the SACC during amphibious operations and the LF FSCC during subsequent operations ashore.

6. FUNCTIONS: (ARC Compilation)

- * *To support and advise the CLF on overall supporting arms matters.*
- * *To develop and publish procedures which ensure coordination of fire support activities among elements of the landing force.*
- * *To plan and coordinate fire support activities which affect the landing force as a whole.*
- * *To consolidate, adjust, and forward landing force supporting arms requirements to higher, adjacent, and supporting commands.*

- * *To provide personnel to assist in the manning of the SACC and TIC when directed*
- * *To resolve conflicts between landing force elements in fire support matters.*
- * *To monitor the phased movement ashore of the landing force Fire Support Coordination Center (FSCC) and ensure a smooth passage of responsibility for control and coordination of supporting arms from the SACC to the FSCC.*

7. ESTABLISHMENT:

(ARC Compilation)

A. INITIATING AUTHORITY:

Commander Landing Force (CLF)

B. CONTROLLING AUTHORITY:

LF G/S3

C. SUPERVISING AUTHORITY:

LF G/S3

D. ORGANIZATIONAL STRUCTURE:

- * *LF Artillery Officers*
- * *LF Air and Naval Gunfire Officers*
- * *LF Target Information Officers (TIO's)*
- * *Appropriate assistants and augmentation personnel to form watch sections in the SACC and TIC during afloat operations and the LF Combat Operations Center (COC) during subsequent operations ashore.*

E. MANNING:

(ARC Compilation)

Proper manning of the SASS is the responsibility of the CLF. The SASS is normally composed of the LF artillery, air, naval gunfire, target information officers and appropriate assistants and required augmentees. During amphibious operations, the SASS will be the primary LF fire support representatives in the SACC and TIC and will ensure that a smooth transition of responsibilities for LF fire support from the SACC to the LF FSCC is accomplished. Accordingly, The SASS must have sufficient personnel to perform sustained 24 hour operations in the SACC and TIC until the LF FSCC is established and fully functioning ashore. During subsequent operations ashore, the SASS will extend and complement the capabilities of the LF FSCC, but will not duplicate it's efforts. Generally, the SASS concentrates on fire support requirements for the next day's battle and future LF missions while the FSCC concentrates on fire support needed for the current situation.

F. LOCATION:

(ARC Compilation)

- (1) AFLOAT: *SACC and TIC*
- (2) ASHORE: *LF Command Post (CP) collocated in the LF COC*

G. COORDINATION: **(ARC Compilation)**

- (1) HIGHER:
TFCC/FP
LFOC
- (2) ADJACENT:
JIC
SSES
SARC
S/EWCC
- (3) LOWER:
FSCC (ASHORE)

H. COMMUNICATIONS CONNECTIVITY: **(ARC Compilation)**

- (1) HIGHER:
 - * *Ships GENSER Communications Center (SCC) for secure GENSER voice and teletype communications to other ATF ships, aircraft, and LF elements.*
 - * *Ships intercom, cctv, and dial telephone to elements/functional centers on same ship.*
- (2) ADJACENT:
 - * *Ships intercom, cctv, and dial telephone to elements/functional centers on same ship.*
- (3) LOWER:
 - * *LF GENSER voice communications circuits terminated in the SACC, JIC, and LFOC.*

8. PRIMARY SYSTEMS EMPLOYED:

(ARC Compilation)

The SASS will have access to all systems installed in the SACC. The systems available to SASS personnel will depend on the type of ship used and the internal ships configuration. Generally, the SASS

will use a combination of manual and automated systems to receive, compile, display, and disseminate fire support related information. Some or all of the following systems may be available for SASS operations in the SACC and/or the TIC:

- * Integrated Tactical Amphibious Warfare Data System (ITAWDS) and subsystems
- * Improved Integrated Tactical Amphibious Warfare Data System (IMPV ITAWDS) and subsystems
- * Tactical Combat Operations (TCO) software
- * AN/USQ-90 - Position Location Reporting System (PLRS)
 - * RT-1343/TSQ-129 - Position Location Reporting System - User Unit (PLRS-UU)
- * NAVSTAR Global Positioning System (GPS) user equipment
- * AN/SXQ-8 (V)4 - Secure Closed Circuit Television (CCTV) system
- * Plotting Board, ship station, 36" X 36"
- * Plotting Board, tactical display, 60" X 60"
- * AN/PSC-2A - Digital Communications Terminal (DCT)

Once the landing force has moved ashore and the LF FSCC has been established, the SASS will operate out of the LF COC in the LF CP. The SASS will have access to all the systems within the LF COC that support the planning, coordinating, monitoring, and to a limited extent controlling the fire support effort of the overall LF. The following systems may be used to support SASS operations ashore:

- * AN/UYK-83 or AN/UYK-85 (FMF-EUCE)
- * Tactical Combat Operations (TCO) software
- * Intelligence Analysis System (IAS) Workstation
- * Marine Flexible Fire Support System (FIREFLEX)
- * AN/USQ-90 - Position Location Reporting System (PLRS)
 - * RT-1343/TSQ-129 - Position Location Reporting System - User Unit (PLRS-UU)
- * NAVSTAR Global Positioning System (GPS) user equipment
- * AN/PSC-2A - Digital Communications Terminal (DCT)

9. OPTIONAL SYSTEMS EMPLOYED:

[ARC COMPTON]

Elements from the ATF, LF and/or rapid response national and/or Special Operations Force (SOF) assets employ a variety of portable computer, communications and target acquisition type systems that may be used by SASS personnel. Coordinate with ATF N2, CEO, SACC, and LF G/S2 when these

systems are planned to be used within the SACC during afloat operations. The following optional systems may be used to support SASS operations afloat or ashore:

- * IBM Compatible Portable Computer Systems*
- * Tactical Video Transmission Systems (TVTS)*
- * Various tactical intelligence systems employed by SRIG elements or SOF elements that support the fire support planning and targeting effort.*

10. REPORTS/PRODUCTS PROVIDED:

(ARC Compilation)

- * Fire support products, messages, reports prepared by the SACC.*
- * Fire support products, messages, reports prepared by the TIC.*
- * Fire support products, messages, reports prepared by the LF COC.*
- * Fire Support Coordination Map*
- * Scheme of Manuver/fire support coordination measures overlay*
- * Friendly situation (location of friendly units and target acquisition assets) overlay*
- * Targets overlay*
- * Preplanned fires/programs of fire/special purpose overlays*

1. LONG TITLE: LANDING FORCE SUPPORT PARTY
2. SHORT TITLE: LFSP
3. REFERENCES:
 - A. FMFM 2 THE MARINE AIR-GROUND TASK FORCE
 - B. FMFM 3-30 COMMUNICATIONS
 - C. FMFM 4 COMBAT SERVICE SUPPORT
 - D. OH 4-1 COMBAT SERVICE SUPPORT OPERATIONS
 - E. MCCDC MAGTF INTEROPERABILITY REQUIREMENTS CONCEPTS (MIRC) (4 MAY 1990)

4. MISSION: (ARC Compilation)
To support the Landing Force during ship-to-shore operations by assisting in the execution of the landing plan and providing a uniform flow of materiel ashore.

5. DESCRIPTION: (ARC Compilation)
The LFSP is a temporary task organization formed around the MAGTF's CSSE's Landing Support Battalion/Company/Platoon that may be augmented by other Landing Force (GCE, ACE, CSSE) and Navy units as required. The LFSP provides the functional representation of the MAGTF CSSE during afloat and initial landing force operations and is the forward deployed coordinating agency of the CSSE. The LFSP disbands when the CSSOC is established ashore.

6. FUNCTIONS: (OH 4-1 pg 13-11)
- * Facilitating the landing and movement of troops, equipment, and supplies across beaches into LZs, ports and airfields.
 - * Assisting in the evacuation of casualties and prisoners-of-war during the early stages of the assault.
 - * Assisting in the beaching, retraction, and salvage of landing ships, landing craft, and amphibious vehicles.

7. ESTABLISHMENT: (OH 4-1 pg 13-10)
- A. INITIATING AUTHORITY:
MAGTF Commander
 - B. CONTROLLING AUTHORITY:
MAGTF Commander

C. SUPERVISING AUTHORITY:

CSSE COMMANDER

D. ORGANIZATIONAL STRUCTURE:

(OH 4-L, pg 13-13)

- * **LFSP Headquarters**
 - * **Command and Administration Section**
 - * **Medical Section**
 - * **Military Police Section**
 - * **Communications Section**
 - * **Motor Transport Section**
 - * **Liaison Section**
- * **Shore Party Element**
- * **Beach Party Element**
- * **Helicopter Support Element**
- * **Special Attachments**

E. MANNING:

(ARC Compilation)

Personnel to man the LFSP are drawn from Landing Support Battalion/Company/Platoon and the Naval Beach Group. A shore party team is assigned for each landing beach and a helicopter support team is assigned for each landing zone. The LFSP is the compilation of these landing site teams, their senior groups and special attachments. The exact composition of the LFSP is governed by the number and type of landing sites, the size of the MAGTF, and the explicit needs of the overall amphibious operation.

F. LOCATION:

(ARC Compilation)

(1) **AFLOAT:** *Aboard the ship that supports the LFSP's deployment ashore in it's assigned wave of the assault echelon.*

(2) **ASHORE:** *Assigned beach or landing zone.*

G. COORDINATION:

(ARC Compilation)

(1) **HIGHER:**

- * **ATF TFCC/FP**
- * **MAGTF COMMAND CENTER (MAGTF CC) or MAGTF COC (until establishment of CSSOC ashore)**

(2) ADJACENT:

JIC LFOC TACLOG GP
CIC HLSC

- * *MAGTF COC and CIC (Until establishment of CSSOC ashore)*

(3) LOWER:

- * *MWSG*
- * *Deployed Shore Party Group teams/elements*
- * *Deployed Helicopter Support Group teams/elements*
- * *Deployed Beach Party Group teams/elements*

H. COMMUNICATIONS CONNECTIVITY:

(ARC Compilation)

(1) HIGHER:

- * *Secure and non-secure GENSER voice radio circuits to all Naval Control organizations, LF elements, and TACLOG GP.*

(2) ADJACENT:

- * *Established secure and non-secure LF GENSER voice radio circuits.*

(3) LOWER:

- * *Established secure and non-secure LFSP GENSER internal voice radio circuits.*

8. PRIMARY SYSTEMS EMPLOYED:

(ARC Compilation)

The LFSP will employ primarily voice radio to effect the transmission and receipt of intelligence information.

9. OPTIONAL SYSTEMS EMPLOYED:

(ARC Compilation)

If the LFSP has to perform the functions of the forward coordinating agency of the CSSE for a sustained period, the following optional systems may be used to assist intelligence efforts.

- * *AN/UYK-83 or AN/UYK-85 (FMF-EUCE)*
- * *IBM Compatible Portable Computer Systems*
- * *AN/PSC-2A - Digital Communications Terminal (DCT)*

10. REPORTS/PRODUCTS PROVIDED:

(ARC Compilation)

- * *Situation Reports*
- * *Contact Team Reports*

- * *Prisoner of War (POW) Reports*
- * *Beach Reconnaissance Reports*
- * *Landing Zone Reports*

1. LONG TITLE: TACTICAL LOGISTICAL GROUP
2. SHORT TITLE: TACLOG GP
3. REFERENCES: A. FMFM 3-30 COMMUNICATIONS
B. OH 4-1 COMBAT SERVICE SUPPORT OPERATIONS
C. MCCDC MAGTF INTEROPERABILITY REQUIREMENTS CONCEPTS (MIRC) (4 MAY 1990)

4. MISSION:

(OH 4-1, PG 13-17)

To advise and assist the Navy control communications during the ship-to-shore movement of both waterborne and helicopterborne forces.

5. DESCRIPTION:

(ARC Compilation)

The TACLOG is a temporary task organization formed by the LF Commander staffed by representatives from the unit making the assault. TACLOGs vary in composition based upon the level of command and the number of units landing. TACLOGs may be established on both the primary control ship for a colored beach and on the helicopter transport ship. The CLF will designate the primary TACLOG and specify the authority each TACLOG may exercise. An overall LF TACLOG may be activated by the CLF aboard the ATF flagship. TACLOGs monitor the landing of scheduled waves then provides recommendations for the landing of on-call and nonscheduled serials. The TACLOG provides the means to respond to changes to the anticipated landing sequence which results from the tactical situation ashore by providing centralized tactical/logistical coordination of ship-to-shore movements.

6. FUNCTIONS:

(OH 4-1, PG 13-19)

- * Represents the tactical commander when the Navy control organization wants to make decisions affecting the tactical operations ashore.
- * Informs the appropriate commander of any changes or contemplated change in the landing sequence which may affect the tactical situation ashore.
- * Advises the Navy control officer on the priority for landing certain serials. Changes may be necessary when the beach or landing zone becomes congested or when there is a transportation shortage.

- * Anticipates landing force requirements and coordinates landing of nonscheduled elements in accordance with the landing plan.

- * Informs the CLF of the status of the unloading.

- * Informs the tactical commander ashore of the progress of the ship-to-shore movement.

- * Monitors the landing of scheduled waves.

- * Maintains a record of on-call, nonscheduled serials, and landing force supplies to indicate which serials the commander has requested and those which the Navy has ordered to land. Records the time of dispatch and time of arrival ashore for each serial.

- * Maintains a record of ships' locations and keeps the LFSP commander informed of ships' movement.

- * Informs the Navy control officer of requests received from the tactical commander.

- * Advises the Navy control officer of the requirements, locations, number and types of landing craft, ships, amphibious vehicles, or helicopters required to land requested items.

- * Records the dispatching of requested items.

7. **ESTABLISHMENT:**

(OH 4-1, PG 13-30)

A. **INITIATING AUTHORITY:**

CLF

B. **CONTROLLING AUTHORITY:**

CLF

C. **SUPERVISING AUTHORITY:**

(OH 4-1, PG 13-30)

Landing Force G/S-4

D. **ORGANIZATIONAL STRUCTURE:**

(OH 4-1, PG 13-30)

- * G/S-3 Representative

- * G/S-4 Representative

- * Embarkation Officer

- * Representatives of other units landing over the same colored beach.

- * Clerks and administrative personnel.
- * Communications personnel and equipment.
- * LFSP Commander during ship-to-shore movement.

E. MANNING:

(ARC Compilation)

Personnel to man the TACLOG GP are drawn from various landing force unit's operations and logistics sections as prescribed in the LF Operations Order. Selected personnel must be thoroughly familiar with LF plans, Navy control measures, and movement capabilities.

F. LOCATION:

(OH 4-11 pg 13-17)

(1) AFLOAT:

- * Collocated aboard the primary control ship with the Navy control organization for a specific colored beach.
- * LF TACLOG aboard the ATF flagship.

(2) ASHORE: Only established aboard ship.

G. COORDINATION:

(ARC Compilation)

(1) HIGHER:

- * *ATF Navy Control Organization*
- * *ATF TFCC/FP*
- * *MAGTF LFSP*

(2) ADJACENT:

- * *LFOC*
- * *JIC*
- * *HDC*
- * *OTHER PRIMARY CONTROL SHIPS*

(3) LOWER:

- * *Subordinate TACLOGs*
- * *HLSC*
- * *Deployed Shore Party Group teams/elements.*
- * *Deployed Helicopter Support Group teams/elements*
- * *Deployed Beach Party teams/elements*

H. COMMUNICATIONS CONNECTIVITY:

(ARC Compilation)

(1) HIGHER:

- * *Ships intercom, cctv, and dial telephone to elements on same ship.*
- * *Secure and non-secure GENSER voice radio circuits to all Naval Control organizations, LF elements, and LF TACLOG GP.*

(2) ADJACENT:

- * *Established secure and non-secure LF GENSER voice radio circuits.*

(3) LOWER:

- * *Established secure and non-secure LFSP GENSER internal voice radio circuits.*

8. PRIMARY SYSTEMS EMPLOYED:

(ARC Compilation)

The systems available for use by the TACLOG GP will depend on the type of ship used and the spaces made available for TACLOG GP operations. Generally, the following systems will be available for TACLOG operations:

- * *Integrated Tactical Amphibious Warfare Data System (ITAWDS) and subsystems*
- * *Improved Integrated Tactical Amphibious Warfare Data System (IMPV ITAWDS) and subsystems*
- * *Standard Embarkation Management System (SEMS)*
- * *Computer-Aided Embarkation Management System (CAEMS)*
- * *Marine Integrated Personnel System (MIPS)*
- * *Marine Integrated Logistics System (MILOGS)*

9. OPTIONAL SYSTEMS EMPLOYED:

(ARC Compilation)

- * *AN/UYK-83 or AN/UYK-85 (FMF-EUCE)*
- * *IBM Compatible Portable Computer Systems*
- * *AN/PSC-2A - Digital Communications Terminal (DCT)*

10. REPORTS/PRODUCTS PROVIDED:

(SIRC)

- * *Location of troop units, supplies, and equipment.*
- * *Boating requirements for serials.*
- * *Adjustments in the landing sequence.*
- * *Special requirements of commanders ashore.*
- * *Serial Status Report*

- * Information and recommendations to facilitate the landing of on-call and nonscheduled serials.
- * Ship locations.

1. LONG TITLE: HELICOPTER LOGISTICS SUPPORT CENTER
2. SHORT TITLE: HLSC
3. REFERENCES:
- | | | |
|----|-----------|--|
| A. | FMFM 3-30 | COMMUNICATIONS |
| B. | FMFM 5-3 | ASSAULT SUPPORT HELICOPTER
TACTICAL MANUAL |
| C. | OH 1-100 | JOINT DOCTRINE FOR LANDING FORCE
OPERATIONS |
| D. | OH 3-31 | MARINE AIR-GROUND TASK FORCE
COMMAND ELEMENT COMMUNICATIONS |
| E. | OH 4-1 | COMBAT SERVICE SUPPORT OPERATIONS |
| F. | MCCDC | MAGTF INTEROPERABILITY
REQUIREMENTS CONCEPTS (MIRC) (4
MAY 1990) |

4. MISSION: (OH 3-31, pg 3-11)
To closely coordinate the debarkation of helicopterborne serials in accordance with the landing plan.

5. DESCRIPTION: (ARC Compilation)
The HLSC is the afloat agency that coordinates the movement of troops, equipment, and supplies during the helicopterborne ship-to-shore movement. The HLSC maintains cognizance of scheduled, on call, and unscheduled helicopter serials and responds to additional requests from the commander ashore or the LFSP. The HLSC conducts required coordination with the HDC for the number and type of aircraft available and with the supported unit TACLOG, and the debarkation control officer for designation of the applicable ship to prepare for helicopterborne operations and type of mission.

6. FUNCTIONS: (MIRC)
- * Coordinate the debarkation of helicopterborne serials in accordance with the landing plan.
 - * Coordinate deviations from the landing plan and the debarkation of on-call and nonscheduled serials.
 - * Maintains a record of the status of debarkation of all helicopterborne serials.
 - * Reports the status of debarkation to the appropriate TACLOG Group.

(ARC Compilation)

* *Directs ships of the helicopter transport group to prepare nonscheduled and on-call troops, equipment, and supplies for helicopter pickup when requested by the TACLOG GP and on approval of the helicopter transport group commander.*

* *Advises HDC concerning number of helicopters required and priority of lift.*

7. ESTABLISHMENT:

(ARC Compilation)

A. INITIATING AUTHORITY:

Helicopter Transport Group/Unit Commander

B. CONTROLLING AUTHORITY:

Helicopter Transport Group/Unit Commander

C. SUPERVISING AUTHORITY:

Designated HLSC OIC or specified Helicopter Transport Group/Unit logistics officer

D. ORGANIZATIONAL STRUCTURE:

Unknown

E. MANNING:

Personnel to man the HLSC are drawn from within the helicopter transport group/unit in sufficient numbers to maintain 24 hour operations.

F. LOCATION:

(OH 4-1, pg 13-10)

(1) AFLOAT:

* *Located aboard the helicopter transport group flagship near the HDC and the TACLOG.*

(2) ASHORE:

* *Not established ashore.*

G. COORDINATION:

(ARC Compilation)

(1) HIGHER:

TFCC/FP

TACC (A)

(2) ADJACENT:

JIC	SACC	LFSP	SCC
CIC	AFOC	TACLOG GP	
TIC	HDC		
SSES			
SARC			
*	<i>Ship Debarkation Control Officers</i>		
*	<i>Landing Force Helicopter Support Teams (HST's)</i>		

(3) LOWER:

- * *None*

H. COMMUNICATIONS CONNECTIVITY:

(ARC Compilation)

(1) HIGHER:

- * *Ships intercom, cctv, and dial telephone to elements on the same ship.*
- * *Ships Communications Center (SCC) for secure worldwide GENSER voice and teletype communications.*

(2) ADJACENT:

- * *Established task force secure and non-secure Helicopter Control and HST voice radio circuits.*

(3) LOWER:

- * *Ships Communications Center (SCC) for secure and non-secure worldwide GENSER voice and teletype communications.*
- * *Established task force secure and non-secure Helicopter Control and HST voice radio circuits.*

8. PRIMARY SYSTEMS EMPLOYED:

(ARC Compilation)

The systems employed by each HLSC will depend on the type of ship used and the individual ships configuration. Generally an HLSC will have a combination of manual and automated systems to maintain helicopter and logistic situation and status updates. Refer to the specific ships loading characteristics pamphlet and coordinate with ATF and/or ships company communications or operations personnel for specific details. Some or all of the following systems may be available for use by the HLSC:

- * *Amphibious Flagship Data System (AFDS)*
- * *Naval Tactical Data System (NTDS)*

- * *Amphibious Support Information System (ASIS)*
- * *Integrated Tactical Amphibious Warfare Data System (ITAWDS) and subsystems*
- * *Improved Integrated Tactical Amphibious Warfare Data System (IMPV ITAWDS) and subsystems*
- * *AN/USQ-88(V)1 - Flag Data Display System (FDDS)*
- * *Airborne Tactical Data System (ATDS)*
- * *Shipboard MTACCS Interface Controller (SMIC)*

9. **OPTIONAL SYSTEMS EMPLOYED:**

(ARC Compilation)

- * *IBM Compatible Portable Computer Systems*
- * *AN/UYK-83 or AN/UYK-85 (FMF-EUCE)*

10. **REPORTS/PRODUCTS PROVIDED:**

(MIRC)

- * *Helicopterborne debarkation status reports.*
- * *Scheduled, on-call, and nonscheduled helicopterborne serial lists.*

1. LONG TITLE: SHIPS COMMUNICATIONS CENTER

2. SHORT TITLE: SCC

3. REFERENCES:

A.	FMFM 3-30	COMMUNICATIONS
B.	NSSC	C3I ANALYSIS REPORT (PMS 377) (13 JUNE 1986)
C.	MCCDC	MAGTF INTEROPERABILITY REQUIREMENTS CONCEPTS (MIRC) (4 MAY 1990)
D.	CMC	MARINE CORPS COMMAND AND CONTROL MASTER PLAN (3 AUG 1987)

4. MISSION:

(ARC Compilation)

To transmit, receive, process, and deliver, general service (GENSER) record copy message traffic for assigned ship's units and other embarked units (when required).

5. DESCRIPTION:

(ARC Compilation)

The SCC is a space common to all ships that has the personnel and systems required to maintain general service (GENSER) voice and teletype communications with higher, adjacent, and subordinate commands, ships, aircraft, or elements. The SCC normally includes a message center, a cryptocenter, and a transmitting and receiving center. Each ship's SCC will vary in size and capability according to the type of ship and the individual ship's communications configuration.

6. FUNCTIONS:

(ARC Compilation)

- * *Establish and maintain internal and external ships communications as directed.*
- * *Receive message traffic destined for assigned or embarked elements.*
- * *Route and distribute messages internally to assigned or embarked elements.*
- * *Maintain records, files, and logs and prepare communications reports as directed.*
- * *Coordinate installation and maintenance of all SCC equipment.*
- * *Check all outgoing traffic before transmission and review traffic after transmission to ensure message accuracy and check all incoming message traffic prior to internal distribution as directed.*

7. ESTABLISHMENT:

(ARC Compilation)

A. INITIATING AUTHORITY:

Ship's Commanding Officer

B. CONTROLLING AUTHORITY:

Ship's CEO

C. SUPERVISING AUTHORITY:

SCC Officer-In-Charge

D. ORGANIZATIONAL STRUCTURE:

- * *SCC OIC*
- * *SCC NCOIC*
- * *Watch Supervisors*
- * *Control Element*
- * *Processing Element*
- * *Transmitting and Receiving Element*
- * *Additional communications personnel from embarked units to augment the SCC as required.*

E. MANNING:

(ARC Compilation)

Manning of an individual ship's SCC is accomplished by established Table of Organizations (T/O) and assignment policies for each ship. Personnel assignments are based on the type of ship and the installed communications systems configuration. Embarked units should provide communications personnel to augment the SCC in order to compensate for the increased message traffic.

F. LOCATION:

(ARC Compilation)

(1) AFLOAT:

The exact location of the SCC depends on the individual ship's configuration. Generally, the SCC will be located on the same deck level and in close proximity to the CIC, JIC, and SSES (if configured).

(2) ASHORE: Not applicable in this situation.

G. COORDINATION:

(ARC Compilation)

(1) HIGHER:

TFCC/FP (if applicable)

Joint System Control Center (JSCC) (if applicable)

OSCC

Naval Telecommunications Command Operations Center (NTCOC)

(2) **ADJACENT:**

CIC SACC (if applicable) HDC (if applicable)
SSES (if applicable) LFOC (if applicable) LFSP (if applicable)
SARC (if applicable) TACC (if applicable) TACLOG GP (if applicable)
S/EWCC (if applicable)

(3) **LOWER:**

* *None*

H. COMMUNICATIONS CONNECTIVITY:

(ARC Compilation)

(1) **HIGHER:**

- * *Ships intercom, cctv, and dial telephone to elements/functional centers on same ship.*
- * *NAVCAMS or NAVCOMMSTA shore installations.*
- * *SCC systems to other ship, airborne or shorebased communications centers.*

(2) **ADJACENT:**

- * *Ships intercom, cctv, and dial telephone to elements/functional centers on same ship.*
- * *SCC systems to other ship, airborne, or shorebased communications centers.*

(3) **LOWER:**

* *None.*

8. PRIMARY SYSTEMS EMPLOYED:

(ARC Compilation)

Each SCC will have a combination of communications systems depending on the individual ship type and configuration. Some or all of the following communications systems may be installed in a SCC:

- * *Navy UHF Satellite Communications (SATCOM) System*
- * *Fleet Satellite Broadcast (FSB) System*
- * *AN/SYQ-7 (V) () - Navy Modular Automated Communications System (NAVMACS)*
- * *Common-User Digital Information Exchange Subsystem (CUDIX)*
- * *NAVMACS/CUDIXS Subsystems*
 - * *Secure Voice Subsystem*
 - * *Tactical Intelligence (TACINTEL) Subsystem*
 - * *Teletypewriter (ORESTES) Subsystem*

- * *Tactical Data Information Exchange Subsystem (TADIXS)*
- * *Demand Assigned Multiple Access (DAMA) Subsystem*
- * *Control Subsystem*
- * *LEASAT Telemetry, Tracking, and Command Subsystem*
- * *Quality Monitoring Subsystem*
- * *U.S. Navy Super High Frequency (SHF) Satellite Communications*
- * *U.S. Navy Extremely High Frequency (EHF) Satellite Communications*
- * *Single Audio System (SAS)*
- * *Various single channel HF/VHF/UHF radio systems*

9. **OPTIONAL SYSTEMS EMPLOYED:**

(ARC Compilation)

Embarked elements from both the ATF, LF and/or rapid response national and/or Special Operations Force (SOF) assets employ a variety of portable computer and communications systems that may be used within the SCC during contingency operations. The following systems may be used:

- * *IBM Compatible Portable Computer Systems*
- * *AN/PSC-2A - Digital Communications Terminal (DCT)*
- * *Portable SATCOM systems providing secure voice, teletype, and facsimile communications.*

10. **REPORTS/PRODUCTS PROVIDED:**

(ARC Compilation)

- * *GENSER message traffic*
- * *Circuit usage reports*
- * *Circuit activation requests/reports*

1. LONG TITLE: OPERATIONAL SYSTEM CONTROL CENTER

2. SHORT TITLE: OSCC

3. REFERENCES:

- A. FMFM 3-30 COMMUNICATIONS
- B. FMFRP 3-32 TRI-MEF STANDING OPERATING PROCEDURES FOR COMMUNICATIONS AND COMPUTER SYSTEMS
- C. NSSC C3I ANALYSIS REPORT (PMS 377) (13 JUNE 1986)
- D. MCCDC MAGTF INTEROPERABILITY REQUIREMENTS CONCEPTS (MIRC) (4 MAY 1990)
- E. CMC MARINE CORPS COMMAND AND CONTROL MASTER PLAN (3 AUG 1987)

4. MISSION:

(ARC Compilation)

To maintain current information on the availability and operational readiness of communications resources and to control the utilization of these resources to ensure maximum communications support to authorized users as directed.

5. DESCRIPTION:

(ARC Compilation)

An OSCC which is commonly called "SYSCON" is an activity subordinate to the Operational System Control (OSC) staff that ensures that all available communications circuits are used to the best advantage to fulfill the communications requirements of the assigned forces. The OSCC monitors the established communications system and coordinates those actions required for implementation of communications plans, orders, and directives. The OSCC provides direction to designated Technical Control Facilities (TECHCONFAC's) for circuit restoration and to receive and maintain current circuit information. Directions given by an OSCC regarding circuit configurations, restoration priorities, frequency changes, and other communications related matters, carry the authority of the Commander.

6. FUNCTIONS:

(ARC Compilation)

- * Implement and control the entire telecommunications system as one cohesive yet flexible entity.
- * Maintain current status of all circuits.
- * Provide reliable communications support for the command.

- * Supervise and make emergency adjustments to the existing communications system and act as point of contact for the installation and maintenance of all transmission and terminal means and electrical power sources related to the circuits controlled by it's facility.
- * Maintain data and records of the communications system.

7. ESTABLISHMENT:

(ABC Completion)

OSCC's are established at all levels of command down to the battalion/squadron level. The senior OSCC will be established at the MAGTF Command Element (CE) and will be manned and operated by the designated communications unit providing overall support to the MAGTF.

A. INITIATING AUTHORITY:

MAGTF Commander

B. CONTROLLING AUTHORITY:

G/N-6 or CEO

C. SUPERVISING AUTHORITY:

Designated Commanding Officer or Officer-In-Charge of Communications Unit providing overall support to the MAGTF.

D. ORGANIZATIONAL STRUCTURE:

- * OSCC OIC
- * OSCC NCOIC
- * Watch Supervisors
- * Communications watch section personnel
- * Additional communications personnel from assigned MAGTF units to augment the senior OSCC or establish subordinate OSCC's as required.

E. MANNING:

(ABC Completion)

An established OSCC will be manned by the communications unit supporting the requisite element of the MAGTF (i.e. MAGTF CE, GCE, ACE, SRIG/SRIG Detachment, CSSE, and subordinate units) with additional personnel augmentation provided by other MAGTF communications units/sections as required.

F. LOCATION:

(ABC Completion)

(1) AFLOAT:

The exact location of each established OSCC during afloat operations will depend upon the individual ships configuration. Generally, during afloat operations, a Joint Systems Control Center (JSCC) will be established at the ATF level with representatives from both the ATF and LF Communications units.

The JSCC or OSCC will normally be collocated with the individual Ships GENSER Communications Center (SCC).

(2) ASHORE:

OSCC's established ashore are normally collocated in the same command post (C.P.) as the element that the respective OSCC is supporting (i.e. MAGTF CE, ACE, GCE, SRIG/SRIG Detachment or CSSE).

G. COORDINATION:

(ARC Compilation)

(1) HIGHER:

- * *TFCC/FP (if applicable)*
- * *Joint System Control Center (JSCC) (if applicable)*
- * *Naval Telecommunications Command Operations Center (NTCOC)*
- * *Designated Defense Communications Agency (DCA) facilities and other naval communications facilities or stations*

(2) ADJACENT:

- * *All MAGTF elements and functional command, control, and communications centers*

(3) LOWER:

- * *All subordinate element OSCC's*

H. COMMUNICATIONS CONNECTIVITY:

(ARC Compilation)

(1) HIGHER:

- * *Ships intercom, cctv, and dial telephone to elements/functional centers on same ship (when afloat).*
- * *NAVCAMS or NAVCOMMSTA shore installations.*
- * *Ships GENSER Communications Center (SCC) systems to JSCC or OSCC's on other ships, aircraft, or shorebased communications centers (when afloat).*
- * *Established Tactical GENSER Communications Center (TCC) systems to JSCC or OSCC's on ships, aircraft, or shorebased communications centers (when ashore).*

(2) ADJACENT:

- * *Ships intercom, cctv, and dial telephone to elements/functional centers on same ship (when afloat).*
- * *Ships GENSER Communications Center (SCC) systems to OSCC's on other ships, aircraft, or shorebased communications centers (when afloat).*

- * *Established Tactical GENSER Communications Center (TCC) systems to OSCC's on ships, aircraft, or shorebased communications centers (when ashore).*

(3) **LOWER:**

- * *Ships GENSER Communications Center (SCC) systems to OSCC's on other ships, aircraft, or shorebased communications centers (when afloat).*
- * *Established Tactical GENSER Communications Center (TCC) systems to OSCC's on ships, aircraft, or shorebased communications centers (when ashore).*

8. **PRIMARY SYSTEMS EMPLOYED:**

(ARC Compilation)

Each OSCC will have different capabilities however most will use a combination of manual and automated systems to perform the required functions of the OSCC. Generally, an OSCC will have access to any communications network or system that has been established and is under the perview of the respective OSCC to include teletype, voice, and facsimile radio and wireline systems. Additionally, an OSCC will use visual status boards, maps, and computer systems (with special software) to perform OSCC operations.

9. **OPTIONAL SYSTEMS EMPLOYED:**

(ARC Compilation)

The following optional systems may be employed in an OSCC:

- * *IBM Compatible Portable Computer Systems*
- * *AN/UYK-83 or AN/UYK-85 (FMF-EUCE)*
- * *Frequency propagation and prediction systems*
- * *Chirpsounder and frequency monitoring systems*

10. **REPORTS/PRODUCTS PROVIDED:**

(ARC Compilation)

- * *Automated CEOI*
- * *Technical communications plans, publications, and SOP's*
- * *Circuit status reports*
- * *Circuit outage reports*
- * *Frequency usage reports*
- * *Telephone network traffic volume reports*
- * *Message volume reports*

1. LONG TITLE: MARINE AIR-GROUND TASK FORCE COMMAND CENTER

2. SHORT TITLE: MAGTF CC

3. REFERENCES: A. JCS PUB 1-02 DOD DICTIONARY OF MILITARY AND
ASSOCIATED TERMS
B. FMFM 3-21 MAGTF INTELLIGENCE OPERATIONS
(DRAFT)

4. MISSION: **(ARC Compilation)**
To provide the MAGTF Commander with the capability to effectively direct and control assigned and attached forces.

5. DESCRIPTION: **(ARC Compilation)**
The MAGTF CC is a space or facility designated by the MAGTF Commander that serves as the overall command and control center for all operations and missions performed by the MAGTF. The MAGTF CC provides the MAGTF Commander with the capability to gather, process, analyze, evaluate, display, and disseminate planning and operational data required for effective employment of his forces. A MAGTF CC is not always established and normally the MAGTF Commander will designate the MAGTF COC as his command center unless he deems it absolutely necessary to establish a separate MAGTF CC.

6. FUNCTIONS: **(ARC Compilation)**

- * *Exercise overall command of assigned elements/units of the MAGTF.*
- * *Provide the capability to override actions of subordinate commanders when required.*
- * *Display tactical and operational information in real time and on static displays.*
- * *Monitor all operations of assigned forces.*
- * *Communicate with assigned forces and other commands, including the National Command Authority (when required).*
- * *Provide a space or facility for operational briefings and situation updates for the MAGTF and subordinate commanders.*

7. ESTABLISHMENT:

(ARC Compilation)

The MAGTF CC is established and activated upon direction of the MAGTF Commander.

A. INITIATING AUTHORITY:

MAGTF Commander

B. CONTROLLING AUTHORITY:

MAGTF Commander

C. SUPERVISING AUTHORITY:

MAGTF Deputy Commander or Chief of Staff

D. ORGANIZATIONAL STRUCTURE:

- * *MAGTF Commander*
- * *Deputy Commander or Chief of Staff*
- * *Selected MAGTF Staff and liaison personnel (as required).*
- * *Communications and ADP system operator personnel (as required).*
- * *Watch sections (as required).*

E. MANNING:

(ARC Compilation)

Manning of the MAGTF CC will be directed by the MAGTF Commander and implemented by the Deputy Commander or Chief of Staff. MAGTF CC spaces are manned by personnel from the MAGTF Command Element (CE) and may be augmented by required personnel from subordinate MAGTF elements/units. If the MAGTF CC is established, personnel manning must be sufficient to establish at least two watch sections in order to maintain sustained 24 hour operations.

F. LOCATION:

(ARC Compilation)

(1) AFLOAT:

If established afloat, the MAGTF CC will be imbedded within the ATF TFCC/FP. See TFCC/FP for more information on TFCC/FP spaces.

(2) ASHORE:

If a separate MAGTF CC is established, it will be located in the main MAGTF Command Post (CP) area and will be situated within close proximity of the MAGTF COC and CIC.

G. COORDINATION:

(ARC Compilation)

(1) HIGHER:

- * *JTF Commander's and/or Fleet Commander's Command Center*
- * *Theater CinC Command Center*
- * *American Embassy (if applicable)*
- * *National Military Command Center (NMCC)*
- * *National Command Authority*

(2) ADJACENT:

- * *Carrier Battle Group*
- * *Surface Action Group*
- * *Other JTF/Combined Units*

(3) LOWER:

- * *Assigned, attached, and subordinate units and Operational Centers within the MAGTF.*

H. COMMUNICATIONS CONNECTIVITY:

(ARC Compilation)

(1) HIGHER:

- * *Ships GENSER Communication Center (SCC) for secure worldwide GENSER voice and teletype communications (if afloat).*
- * *Ships Signals Exploitation Space (SSES) for secure worldwide special intelligence communications (SPINTCOMM) (if afloat).*
- * *Liaison Teams from JTF, Theater CINC, and/or national assets using secure portable SATCOM systems (as required).*
- * *Airborne Command, Control, and Communications (ABCCC) systems (if utilized).*
- * *Established MAGTF secure and non-secure wireline and telephone circuits.*
- * *Established Tactical GENSER Communications Center (TCC) for secure worldwide GENSER teletype communications.*
- * *Established MAGTF Special Security Communications Center (SSCC) for secure worldwide voice and teletype special intelligence communications (SPINTCOMM).*
- * *Established MAGTF secure and non-secure tactical radio circuits.*

(2) **ADJACENT:**

- * *Ships intercom, cctv, and dial telephone to elements or centers on same ship (when afloat).*
- * *Ships GENSER Communications Center (SCC) for secure GENSER voice and teletype communications to other ships and/or units (when afloat).*
- * *Established MAGTF Tactical GENSER Communications Center (TCC) for secure GENSER teletype communications.*
- * *Established MAGTF Special Security Communications Center (SSCC) for secure voice and teletype special intelligence communications (SPINTCOMM).*
- * *Established MAGTF secure and non-secure wireline and telephone circuits.*
- * *Established MAGTF secure and non-secure tactical radio circuits.*

(3) **LOWER:**

- * *Ships intercom, cctv, and dial telephone to elements/functional centers on same ship (when afloat).*
- * *Ships GENSER Communications Center (SCC) for secure GENSER voice and teletype communications to other ships (when afloat).*
- * *Established MAGTF secure and non-secure wireline and telephone circuits.*
- * *Established MAGTF Tactical GENSER Communications Center (TCC) for secure GENSER teletype communications.*
- * *Established MAGTF Special Security Communications Center (SSCC) for secure voice and teletype special intelligence communications (SPINTCOMM).*
- * *Established MAGTF secure and non-secure tactical radio circuits.*

8. **PRIMARY SYSTEMS EMPLOYED:**

(ARC Compilation)

The systems employed by a MAGTF CC will depend on the capabilities required and the desires of the MAGTF Commander. The capabilities could vary from a simple briefing area/facility to a complete command and control center with fully automated systems. If established, a MAGTF CC will likely have a combination of systems that will range from manually plotted situation maps, briefing and audio/visual systems, voice or digital radio communications systems, and sophisticated computer display systems. Some or all of the following systems may be found in a fully functioning MAGTF CC:

- * *World Wide Military Command and Control System (WWMCCS)*
- * *Marine Integrated Personnel System (MIPS)*

- * *Tactical Combat Operations (TCO) software*
- * *Marine Flexible Fire Support System (FIREFLEX)*
- * *Marine Integrated Logistics System (MILOGS)*
- * *Intelligence Analysis System (IAS) Suite or Workstation*
- * *AN/USQ-90 - Position Location Reporting System (PLRS)*
 - * *AN/ASQ-177 (V) 1&2 - Position Location Reporting System - Airborne User Unit (PLRS-AU)*
 - * *AN/TSQ-129 - Position Location Reporting System - Master Station / Alternate Master Station (PLRS-MS)*
 - * *RT-1343/TSQ-129 - Position Location Reporting System - User Unit (PLRS-UU)*
- * *NAVSTAR Global Positioning System (GPS) user equipment*
- * *AN/PSC-2A - Digital Communications Terminal (DCT)*

9. OPTIONAL SYSTEMS EMPLOYED:

(ARC Compilation)

MAGTF, JTF, Theater CINC and rapid response national and/or Special Operations Force (SOF) liaison teams employ various portable computer and communications systems that may be utilized in a MAGTF CC during joint/contingency operations. The following optional systems may be used within a MAGTF CC:

- * *AN/UYK-83 or AN/UYK-85 (FMF-EUCE)*
- * *IBM Compatible Portable Computer Systems.*
- * *Portable SATCOM systems providing secure voice, teletype, and facsimile communications.*
- * *Tactical Video Transmission Systems (TVTS).*

10. REPORTS/PRODUCTS PROVIDED:

(ARC Compilation)

- * *MAGTF Operational Plans/Orders*
- * *MAGTF Operational Situation Reports*
- * *MAGTF situation maps and overlays*
- * *MAGTF status reports*

1. LONG TITLE: MARINE AIR-GROUND TASK FORCE COMBAT INTELLIGENCE CENTER
2. SHORT TITLE: MAGTF CIC
3. REFERENCES:
 - A. FMFM 2-1 INTELLIGENCE
 - B. FMFM 3-21 MAGTF INTELLIGENCE OPERATIONS
 - C. FMFRP 3-28 TRI-MEF STANDING OPERATING PROCEDURES FOR FIELD INTELLIGENCE OPERATIONS
 - D. MCCDC MAGTF INTEROPERABILITY REQUIREMENTS CONCEPTS (MIRC) (4 MAY 1990)
4. MISSION: (ARC Compilation)
 - A. Primary:

To provide the MAGTF commander, staff, assigned and attached elements with information, intelligence, and counterintelligence required for planning, and execution of assigned MAGTF missions.
 - B. Secondary:

To contribute to the overall intelligence effort and satisfaction of intelligence requirements of higher, adjacent, and supporting commands during joint or combined operations.
5. DESCRIPTION: (ARC Compilation)

The MAGTF CIC is the senior intelligence, reconnaissance, surveillance, and electronic warfare control and coordination agency of the MAGTF. It oversees the information, intelligence, and electronic warfare support efforts of the MAGTF from requirements definition and validation to request for information, intelligence, and electronic warfare support from national, theater, and joint or combined assets to the overall management of the internal information, intelligence, reconnaissance, surveillance, and electronic warfare efforts of MAGTF subordinate elements. The MAGTF CIC processes, integrates, analyzes, evaluates, and interprets information and intelligence obtained by national, theater, and organic assets on terrain, weather, and enemy forces. The MAGTF CIC primarily supports the MAGTF Commander and his staff in the planning for and application of combat power at the decisive time and place and will normally concentrate its efforts on the enemy forces and activities that could affect MAGTF operations up to 96 hours in the future and 500 km or more in depth.
6. FUNCTIONS: (ARC Compilation)

* *Plans, requests, and coordinates, national, theater, joint/combined, and organic MAGTF intelligence, surveillance, reconnaissance, electronic warfare, and counterintelligence activities supporting MAGTF operations.*

* *Plans and coordinates the production of intelligence for the MAGTF and subordinate elements.*

* *Plans and coordinates the dissemination of intelligence to the MAGTF Commander, MAGTF staff and to senior, adjacent, subordinate, and other commands as directed.*

* *Establishes and maintains intelligence liaison with appropriate higher, adjacent, and supporting commands and intelligence agencies.*

* *Plans and coordinates the activities of assigned scientific and technical intelligence and intelligence specialist teams as necessary.*

* *Plans and coordinates MAGTF imagery intelligence activities.*

* *Plans and coordinates MAGTF counterintelligence activities.*

* *Plans and coordinates MAGTF requirements for maps, charts, graphic aids, and imagery products and specifies appropriate distribution.*

* *Plans and coordinates MAGTF special intelligence collection, processing, and communications activities.*

* *Arranges for and coordinates dissemination of weather data for the MAGTF.*

* *Plans and coordinates the production and dissemination of target intelligence and maintains liaison with the target information section of the GCE FSCC and DASC, CATF SACC, and ACE CIC.*

* *Plans and coordinates the preparation of intelligence, special intelligence, and counterintelligence estimates.*

* *Prepares MAGTF intelligence planning schedules.*

* *Plans and coordinates the preparation of MAGTF intelligence plans, orders, annexes, appendices, and estimates.*

* *Plans and coordinates, and the development and preparation of MAGTF periodic intelligence summaries, terrain and hydrographic studies, order of battle studies, and special intelligence studies.*

* *Maintains enemy situation maps and order of battle maps.*

* *Maintains reconnaissance, observation and surveillance plot, and status boards as necessary.*

7. ESTABLISHMENT:

(AKC Completion)

A. INITIATING AUTHORITY:

MAGTF Commander

B. CONTROLLING AUTHORITY:

MAGTF Commander

C. SUPERVISING AUTHORITY:

MAGTF G/S-2

D. ORGANIZATIONAL STRUCTURE:

(FMFRP 3-21, pg 3-5)

- * ***G/S-2***
- * ***Executive Branch***
- * ***CIC Watch Officers***
- * ***CIC Watch Chiefs/Supervisors***
 - * ***Intelligence Support Section***
 - * ***Intelligence Plans Branch***
 - * ***Intelligence Operations Branch***
 - * ***Collections Branch***
 - * ***Analysis/Production Branch***
 - * ***Target Intelligence Branch***
 - * ***HUMINT Branch***
 - * ***SIGINT/GEW/SSO Branch***
 - * ***Intelligence Liaison Section***

E. MANNING:

(ARC Compilation)

Manning of the MAGTF CIC is a joint effort combining the personnel assets of the MAGTF G/S-2 Section with selected personnel from the Intelligence Company/Detachment of the SRIG/SRIG Detachment and other possible intelligence augmentees or liaison personnel from other MAGTF, higher, adjacent, or supporting commands as required.

F. LOCATION:

(ARC Compilation)

(1) AFLOAT:

During amphibious operations, the MAGTF CIC is not normally established unless the MAGTF is a separate element or component of a larger Landing Force. Designated MAGTF CIC personnel will usually augment the Amphibious Task Force (ATF) JIC to ensure a sustained 24 hour capability is maintained to support both CATF and CLF.

(2) ASHORE:

(ARC Compilation)

The MAGTF CIC will normally be located in a designated Tactical-Sensitive Compartmented Information Facility (T-SCIF) within the MAGTF Command Post (C.P.) in the immediate proximity of the MAGTF CC/COC.

G. COORDINATION:

(ARC Compilation)

(1) HIGHER:

- * ATF TFCC/FP
- * MAGTF CC (if established)
- * JTF J2
- * Theater CinC J2
- * Theater FIC/FOSIC/FOSIF
- * National Intelligence Agencies/assets

(2) ADJACENT:

MAGTF COC SASS

- * Other Joint/Combined intelligence units/assets

(3) LOWER:

SRIG/SRIG Detachment-CC (if established)

GCE COC CSSOC OSCC

MAFC GCE CIC TCC

SARC TACC SSCC

S/EWCC ACE CIC

OCAC FSCC

ITOC DASC

CDEC

CMEC

* *Organic MAGTF surveillance, reconnaissance, intelligence, and electronic warfare assets of the SRIG/SRIG Detachment, ACE, GCE, and CSSE.*

H. COMMUNICATIONS CONNECTIVITY:

(ARC Compilation)

(1) HIGHER:

- * *Ships intercom, cctv, and dial telephone to elements on same ship (when afloat).*

- * *Ships GENSER Communication Center (SCC) for secure worldwide GENSER voice and teletype communications (when afloat).*
- * *Ships Signals Exploitation Space (SSES) for secure worldwide voice and teletype special intelligence communications (SPINTCOMM) (when afloat).*
- * *Established tactical secure and non-secure wireline and telephone systems (ashore).*
- * *Established Tactical GENSER Communications Center (TCC) for secure worldwide GENSER teletype communications (ashore).*
- * *Established tactical Special Security Communications Center (SSCC) for worldwide special intelligence communications (SPINTCOMM) (ashore).*
- * *Established LF secure and non-secure voice radio communications circuits (ashore).*
- * *JILES SATCOM system and team (if installed)*
- * *NMIST SATCOM system and team (if installed)*
- * *Mobile Cryptologic Support Facility (MCSF) or Tributary SATCOM system and team (if established)*

(2) **ADJACENT:**

- * *Ships intercom, cctv, and dial telephone to elements on same ship (when afloat).*
- * *Ships GENSER Communications Center (SCC) for secure GENSER voice and teletype communications to other ATF ships (when afloat).*
- * *Established Tactical GENSER Communications Center (TCC) for secure GENSER teletype communications (when ashore).*
- * *Established tactical Special Security Communications Center (SSCC) for secure special intelligence communications (SPINTCOMM) (when ashore).*
- * *Tactical MAGTF secure and non-secure wireline, telephone, and radio communications networks (when ashore).*

(3) **LOWER:**

- * *Ships intercom, cctv, and dial telephone to elements on same ship (when afloat).*
- * *Ships GENSER Communications Center (SCC) for secure GENSER voice and teletype communications to other ATF ships (when afloat).*

- * *Established tactical Special Security Communications Center (SSCC) for secure special intelligence communications (SPINTCOMM) (when ashore).*
- * *Tactical secure and non-secure wireline, telephone, and radio communications networks (ashore).*

8. PRIMARY SYSTEMS EMPLOYED:

(ARC Compilation)

The systems employed by the MAGTF CIC afloat and ashore will be a combination of manual and automated systems. See JIC brief sheet for afloat systems. The some or all of the following systems will be used by the MAGTF CIC during subsequent operations ashore:

- * *Intelligence Analysis System (IAS) Suite*
- * *AN/UYK-83 or AN/UYK-85 (FMF-EUCE)*
- * *AN/USQ-90 - Position Location Reporting System (PLRS)*
 - * *RT-1343/TSQ-129 - Position Location Reporting System - User Unit (PLRS-UU)*
- * *NAVSTAR Global Positioning System (GPS) user equipment*
- * *AN/PSC-2A - Digital Communications Terminal (DCT)*
- * *Collection Management Systems (Topcat/Swifthawk)*

9. OPTIONAL SYSTEMS EMPLOYED:

(ARC Compilation)

Embarked LF intelligence assets and rapid response national and/or Special Operations Force (SOF) intelligence assets employ a variety of portable intelligence and communications systems that may be utilized in the MAGTF CIC. The following systems may be used to augment MAGTF CIC operations:

- * *IBM Compatible Portable Computer Systems*
- * *Various Secondary Imagery Dissemination Systems (SIDS)*
- * *DIA National Military Intelligence Support Team (NMIST) Systems*
- * *Joint Intelligence Liaison Element System (JILES)*
- * *NSA Mobile Cryptologic Support Facility (MCSF) or SATCOM Tributary system.*

10. REPORTS/PRODUCTS PROVIDED:

(ARC Compilation)

- * *MAGTF Intelligence estimates*
- * *MAGTF Intelligence Annexes/Appendices*
- * *MAGTF Periodic Intelligence Reports/Summaries*
- * *MC&G products*
- * *Imagery and Photo products*
- * *Intelligence Briefings*

* *Intelligence Indications and Warning (I&W) reports*

1. LONG TITLE: OPERATIONS, CONTROL AND ANALYSIS CENTER
2. SHORT TITLE: OCAC
3. REFERENCES:
 - A. OH 3-22 SURVEILLANCE, RECONNAISSANCE, AND INTELLIGENCE GROUP (SRIG)
 - B. FMFRP 3-28 TRI-MEF STANDING OPERATING PROCEDURES FOR FIELD INTELLIGENCE OPERATIONS (12 JULY 89)
 - C. MCCDC MAGTF INTEROPERABILITY REQUIREMENTS CONCEPTS (MIRC) (4 MAY 1990)

4. MISSION:

(ARC Compilation)

To provide centralized control, direction, and supervision for the execution of MAGTF SIGINT/EW operations and to conduct the required processing, analysis, exploitation, and reporting of SIGINT derived information.

5. DESCRIPTION:

(ARC Compilation)

The OCAC is the primary agency that exercises centralized control, direction, and mission management of MAGTF SIGINT/EW operations. The OCAC is established within a designated Tactical-Sensitive Compartmented Information Facility (T-SCIF) at the MAGTF level by the assigned SRIG Radio Battalion Commander or Detachment Officer-In-Charge (OIC) and operates under the staff cognizance of the MAGTF G/S-2. The OCAC is the functional focal point for the execution of SIGINT/EW operations conducted by organic MAGTF elements as well as the MAGTF's SIGINT technical and analytical repository for other national, theater, joint, and combined SIGINT/EW elements providing support to the MAGTF. The OCAC is the Radio Battalion Commander's or Detachment OIC's "SIGINT/EW operations center" and is composed entirely of SIGINT/EW personnel from the Radio Battalion/Detachment and/or liaison personnel from national, theater, joint, or combined SIGINT/EW assets supporting the MAGTF. The OCAC will normally receive mission warning and execution orders from the MAGTF CIC or the SRIG/SRIG Detachment-Command Center (SRIG/SRIG DET-CC) (if established) while formally delegated SIGINT Operational Tasking Authority (SOTA) is retained by the MAGTF Commander and executed through basic collection tasking and reporting guidance and directions issued by the MAGTF G/S-2. The OCAC translates MAGTF information and intelligence requirements

stated as Essential Elements of Information and Other Intelligence Requirements (EEI/OIR's) into prioritized SIGINT Reporting Instructions (SRI) with specific SIGINT related activity indicators and timeliness criteria recognized by SIGINT/EW collection operators and analysts. The OCAC then directs and supervises the employment SIGINT/EW assets/teams to the best locations where the target signal collection can be achieved. SIGINT/EW Team operational employment, site locations, transportation, security, resupply, and personnel matters are command responsibilities and fall under the direct pervue and prerogatives of the Radio Battalion Commander/Detachment OIC and the chain of command to the SRIG/SRIG Detachment Commander and subsequently the MAGTF Commander. Additional intelligence requirements and changes concerning intelligence collection priorities or reporting criteria or electronic warfare activities remain under the staff cognizance and direction of the MAGTF G/S-2.

6. FUNCTIONS:

ABC Completion

- * To assist in the preparation of the SIGINT appendix and EW appendix of MAGTF plans and orders.*
- * To direct and supervise the execution of SIGINT/EW operations by designated MAGTF and other assigned SIGINT/EW assets.*
- * To translate MAGTF Essential Elements of Information / Other Intelligence Requirements (EEI/OIR) into SIGINT tasking and reporting instructions for SIGINT collection assets.*
- * To conduct collection management functions for assigned and attached SIGINT/EW assets as directed.*
- * To plan, direct, control, and supervise the execution of MAGTF intercept, Direction Finding (DF), and specified Electronic Warfare (EW) operations against enemy communications and non-communications activities.*
- * To plan, direct, control, and supervise the execution of assigned Communications Security (COMSEC) monitoring activities as directed.*
- * To establish and maintain specific Enemy Communications and Electronics technical information required to prosecute MAGTF SIGINT/EW operations.*
- * To serve as the primary focal point for interface with national, theater, joint, and combined SIGINT/EW agencies to ensure the coordinated execution SIGINT/EW operations in support of the MAGTF.*
- * To process, analyze, correlate, collate, and report SIGINT information collected by assigned or attached SIGINT/EW assets supporting the MAGTF.*
- * To produce and disseminate SIGINT technical reports as directed.*
- * To produce and disseminate SIGINT tactical reports as directed.*
- * To produce and disseminate SIGINT summaries as directed.*

* To conduct appropriate coordination with other MAGTF, theater, joint, or combined elements for the conduct of SIGINT/EW operations and employment of SIGINT/EW assets within specified operational areas.

7. ESTABLISHMENT:

(ABC Compilation)

The OCAC is established by the Radio Battalion/Detachment Commander when the operational magnitude, duration, and signal environment (threat and friendly) dictates centralized SIGINT/EW efforts. During small scale operations of short duration, a formal OCAC may not be necessary or desired as the primary functions of OCAC may be more efficiently conducted internally by the assigned Radio Battalion Detachment.

A. INITIATING AUTHORITY:

Radio Battalion/Detachment Commander

B. CONTROLLING AUTHORITY:

Radio Battalion S-3 or Detachment Assistant Commander or designated Operations, Control, and Analysis (OCA) Officer

C. SUPERVISING AUTHORITY:

Designated OCAC Watch Officers

D. ORGANIZATIONAL STRUCTURE:

- * *Radio Bn S-3 or Detachment Assistant Commander*
- * *OCAC Watch Officers (2-3)*
- * *OCAC Watch Chiefs/Supervisors (2-3)*
 - * *OCAC Watch Sections (2-3)*
 - * *Collection Management Element*
 - * *Processing, Analysis, and Reporting (PAR) Element*
 - * *Direction Finding (DF) Plot/Control Element (when required)*
 - * *COMSEC Monitoring Element (when required)*
 - * *Special Intelligence Communications (SPINTCOMM) Management Element (when required)*
 - * *Electronic Countermeasures (ECM) Control Element (when required)*
 - * *Other Liaison Officers/Elements as required during joint or combined operations.*

E. MANNING:

(ARC Completion)

Manning of the OCAC is the sole responsibility of the Radio Battalion/Detachment Commander. The preponderance of personnel to man the OCAC will come from the Operations, Control, and Analysis Platoon/Element of the Radio Battalion/Detachment. Additional personnel required within the OCAC for control and management of DF, ECM, and SPINTCOMM assets will be drawn from other Companies, sections, or elements within the Battalion/Detachment.

F. LOCATION:

(ARC Completion)

(1) AFLOAT:

* *A formal OCAC is usually not established during afloat operations as the SSES usually performs OCAC functions for the ATF and LF. If established during afloat operations, the OCAC must be located within the confines of a designated Sensitive Compartmented Information Facility (SCIF) usually on the designated ATF Flagship within the SSES. At a minimum, the OCAC must be established in a secure space in close proximity to the SSES, JIC, S/EWCC, SARC, CIC, and LFOC.*

(2) ASHORE:

* *The OCAC will usually be established near the Landing Force (MAGTF) CP in close proximity to the Landing Force (MAGTF) CC/COC, CIC, S/EWCC, SARC, SRIG/SRIG Detachment-CC (if established), and SSCC within the designated Tactical-Sensitive Compartmented Information Facility (T-SCIF). In some cases, the OCAC may require forward deployment and higher mobility than the MAGTF CP due to terrain and enemy signal propagation patterns. When this is required, a small Radio Bn/Detachment OCAC liaison cell will be established within the MAGTF CIC to ensure SIGINT/EW responsiveness to MAGTF requirements.*

G. COORDINATION:

(ARC Completion)

(1) HIGHER:

- * *National Security Agency (NSA)*
 - * *Theater Cryptologic Support Groups (CSG's)*
 - * *Theater National Cryptologic Representatives (NCR's)*
- TFCC/FP (afloat) MAGTF CC (if established)*
SRIG/SRIG DET-CC (if established)
LFOC (afloat)
JIC (afloat) MAGTF COC (ashore)
MAGTF CIC (ashore)

(2) **ADJACENT:**

- * *Supporting National, Theater, Joint, or Combined SIGINT/EW units/agencies/commands.*

<i>MAFC</i>	<i>LFOC (afloat)</i>	<i>CSSOC</i>
<i>CIC (afloat)</i>	<i>SACC (afloat)</i>	<i>SCC</i>
<i>TIC (afloat)</i>	<i>HDC</i>	<i>TCC</i>
<i>SSES (afloat)</i>	<i>LFSP</i>	<i>SPINTCOMM CTR</i>
<i>S/EWCC</i>	<i>TACLOG GP (afloat)</i>	<i>(SSES or SSCC)</i>
<i>SARC</i>	<i>HLSP</i>	
<i>GCE CIC</i>	<i>GCE COC</i>	
<i>ACE CIC</i>	<i>FSCC</i>	
	<i>TACC</i>	

(3) **LOWER:**

- * *None*

H. COMMUNICATIONS CONNECTIVITY:

[ARC Compilation]

(1) **HIGHER:**

- * *Ships intercom, cctv, and dial telephone to elements on same ship (when afloat).*
- * *Ships GENSER Communications Center (SCC) for secure worldwide GENSER voice and teletype communications (when afloat).*
- * *Ships Signals Exploitation Space (SSES) for secure worldwide voice and teletype special intelligence communications (SPINTCOMM) including TACINTEL (when afloat).*
- * *Established tactical Special Security Communications Center (SSCC) for secure worldwide special intelligence communications (SPINTCOMM) (when established ashore).*
- * *LF secure and non-secure voice radio and wireline communications circuits (when established ashore).*
- * *NSA Mobile Cryptologic Support Facility (MCSF) or SATCOM Tributary system for secure special intelligence voice and/or data communications (if established).*
- * *Long Range Special Reporting and Analysis Circuit (L-SPRAC) (if established) to other air, sea, and ground cryptologic elements within the theater of operation.*

(2) ADJACENT:

- * *Ships intercom, cctv, and dial telephone to elements on same ship (when afloat).*
- * *Ships GENSER Communications Center (SCC) for secure GENSER voice and teletype communications to other ATF ships and/or units (when afloat).*
- * *Established Tactical GENSER Communications Center (TCC) for GENSER teletype communications.*
- * *LF secure and non-secure voice radio and wireline communications circuits (when established ashore).*
- * *Special Security Communications Center (SSCC) for secure teletype special intelligence communications (SPINTCOMM).*
- * *Special Reporting and Analysis Circuit (SPRAC) to other air, sea, and ground cryptologic elements within the operational area.*

(3) LOWER:

- * *LF secure and non-secure voice radio communications circuits (when established ashore).*
- * *Internal Radio Battalion secure tactical wireline and radio communications circuits.*

8. PRIMARY SYSTEMS EMPLOYED:

ARC Description

The systems available for use within the OCAC will be a combination of manual and automated systems (portable, mobile, and vans) to conduct the various SIGINT/EW and COMSEC functions of the OCAC. Some of the following systems may be available for use within the OCAC or will terminate in the OCAC:

- * *AN/TSQ-130 - Technical Control and Analysis Center (TCAC)*
- * *Automated Operations, Control, and Analysis Center (A-OCAC) system*
- * *Special Intelligence Lightweight Communications (SILC) system*
- * *Team Portable Comint System (TPCS) - TOPHUNTER*
- * *Radio Battalion Van Systems*
 - * *AN/TSQ-54B - Radio Intercept Facility*
 - * *AN/TSQ-88A - Light Signal Monitor Facility*
 - * *AN/TSQ-103B - Radio Signal Monitoring Set*
- * *Radio Battalion Portable Equipment*

- * *AN/PRD-10 - Team Portable Direction Finding System (TPDF)(semi-automated)*
- * *AN/PRD-11 - Direction Finding System (manual)*
- * *AN/GRR-8 - Radio Receiving Set (manual)*
- * *Radio Reconnaissance Equipment*
- * *Various commercial receiver, computer, recorder, and antenna systems*
- * *AN/USQ-101 - Tactical Receive Equipment (TRE)*
- * *Tactical Receive Equipment Exploitation Software (TREES)*
- * *Elint Support System (ESS) (Ground)*
- * *Advanced Marine Airborne Signals Intelligence System (AMASS)*
- * *AN/MLQ-36 - Mobile Electronic Warfare Support System (MEWSS)*
- * *AN/UYK-83 or AN/UYK-85 (FMF-EUCE)*
- * *AN/ULQ-19 (V) 1&2 - Electronic Countermeasures Set*
- * *Communications Electronic Countermeasures (CECM) HF/VHF/UHF system*
- * *AN/USQ-90 - Position Location Reporting System (PLRS)*
 - * *AN/ASQ-177 (V) 1&2 - Position Location Reporting System - Airborne User Unit (PLRS-AU)*
 - * *AN/TSQ-129 - Position Location Reporting System - Master Station / Alternate Master Station (PLRS-MS)*
 - * *RT-1343/TSQ-129 - Position Location Reporting System - User Unit (PLRS-UU)*
- * *NAVSTAR Global Positioning System (GPS) user equipment*
- * *Intelligence Analysis System (IAS) Workstation*
- * *Tactical Combat Operations (TCO) software*
- * *NSA Mobile Cryptologic Support Facility (MCSF) or SATCOM Tributary system.*
- * *AN/PSC-2A - Digital Communications Terminal (DCT)*
- * *Various single channel HF/VHF/UHF radio systems*

9. OPTIONAL SYSTEMS EMPLOYED:

(ARC Completion)

Elements within the MAGTF and from the JTF, Theater CINC, and rapid response national and/or SOF liaison teams and cryptologic elements employ a variety of portable computer, communications and other cryptologic or EW systems that may be used in the OCAC during joint or combined operations. The following optional systems may be used within the OCAC:

- * *IBM Compatible Portable Computer Systems*
- * *Special cryptologic devices, receivers, recorders, and analytical systems*

- * *Portable SATCOM systems providing secure voice, teletype, or facsimile communications*

10. **REPORTS/PRODUCTS PROVIDED:**

(ARC Compilation)

- * *Internal Radio Battalion/Detachment Orders, Annexes, Appendices, Letters of Instruction, and SIGINT Reporting Instructions (SRI).*
- * *OCAC input to MAGTF Enemy Electronic Warfare Threat assessments.*
- * *OCAC input to MAGTF Electronic Warfare estimates*
- * *Radio Battalion/Detachment operational courses of action and SIGINT/EW support estimates.*
- * *Special intelligence operational and technical reports*
- * *SIGINT estimates*
- * *SIGINT summaries*
- * *SIGINT Indications and Warning (I&W) reports*
- * *Non-Codeword Tactical Reports (TACREPS)*
- * *Friendly Transmission Security (TRANSEC) advisories and transcripts (as directed)*
- * *Direction Finding reports*
- * *Current status and capabilities of assigned Radio Bn assets*
- * *Current information, status, and capabilities of other SIGINT/EW units through attached liaison personnel during joint or combined operations.*
- * *Radio Battalion/Detachment unique situation maps and overlays*

1. LONG TITLE: FORCE IMAGERY INTERPRETATION CENTER
2. SHORT TITLE: FIIC
3. REFERENCES:
 - A. FMFM 3-21 MAGTF INTELLIGENCE OPERATION
 - B. OH 3-22 SURVEILLANCE, RECONNAISSANCE INTELLIGENCE GROUP (SRIG)
 - C. CMC MARINE CORPS COMMAND AND CONTROL MASTER PLAN (3 AUG 1987)

4. MISSION:

(ARC Compilation)

To receive, process, interpret, and exploit photographic, infrared, and radar imagery products for MAGTF elements.

5. DESCRIPTION:

(ARC Compilation)

The FIIC is a space or facility where imagery interpreters from the Force Imagery Interpretation Unit (FIIU), Intelligence Company, SRIG, receive, process, and analyze raw imagery products to produce imagery interpretation reports and fully annotated and exploited imagery products for MAGTF elements. The FIIC employs a computer-assisted capability to rapidly and accurately exploit hardcopy photographic, infrared, and radar imagery. It also produces, formatted interpretation reports, plots, and other products. In most cases, the FIIC will normally be collocated with or in close proximity of the MAGTF ACE in order to rapidly receive and process raw imagery from aerial reconnaissance platforms. The FIIC will employ the Joint Services Imagery Processing System (JSIPS) and task organizes JSIPS associated teams to support MAGTF operations. Primary direction and guidance for FIIC intelligence efforts are provided by the JIC during afloat operations and by the MAGTF CIC through the SARC during subsequent operations ashore. Control, coordination, and supervision of FIIU personnel is maintained by the SRIG/SRIG Detachment Commander.

6. FUNCTIONS:

(ARC Compilation)

- * *To perform planning, tasking, and subsequent exploitation of national, theater, joint/combined and MAGTF organic imagery acquisition platforms as directed.*
- * *To perform imagery interpretation techniques to obtain information concerning enemy strength, disposition, activities, installations, and capabilities.*
- * *To perform imagery interpretation techniques to obtain information concerning hydrographic characteristics, beach approaches and exits, soil composition, and trafficability as required by MAGTF elements.*

* To perform imagery interpretation techniques to obtain information concerning terrain characteristics, gradient, access and egress routes, and natural and man-made features.

* To perform imagery interpretation techniques to deduce the existence of hidden or camouflaged features.

* To perform imagery interpretation techniques to obtain information concerning all aspects of military and industrial lines of communications as directed.

7. ESTABLISHMENT:

(ARC Compilation)

A. INITIATING AUTHORITY:

Commanding Officer or OIC, SRIG/SRIG Detachment

B. CONTROLLING AUTHORITY:

Commanding Officer or OIC, Intelligence Company/Detachment, SRIG/SRIG Detachment

C. SUPERVISING AUTHORITY:

Officer-In-Charge, FIU

D. ORGANIZATIONAL STRUCTURE:

(OH 3-22, pg 9-4)

- * Headquarters Section
- * JSIPS Team (1-18 personnel)
- * JSIPS Team (1-18 personnel)

E. MANNING:

(ARC Compilation)

The FIIC is manned primarily by the FIU which is an established section of the Intelligence Company, SRIG with an established Table of Organization (T/O). Task organized FIU teams deploy with the SRIG/SRIG Detachment of a MAGTF.

F. LOCATION:

(1) AFLOAT:

The FIIC is not normally established afloat; however, FIU personnel will be assigned imagery interpreter and other intelligence related duties during afloat operations in the JIC or other designated spaces in support of the ATF and LF.

(2) ASHORE:

The FIIC will normally be collocated with the ACE with a small personnel section manning the FIU Element (FE) within the SARC in the MAGTF CP.

G. COORDINATION:

(ARC Compilation)

(1) HIGHER:

SRIG/SRIG Detachment-CC (if established)

LFOC (afloat)

JIC (afloat)

SACC (afloat)

SARC

SASS (afloat)

MAGTF CIC

MAGTF CC/COC

(2) ADJACENT:

MAFC

TIC (afloat)

OCAC

ACE CIC

(3) LOWER:

* *Deployed FIU teams/elements*

H. COMMUNICATIONS CONNECTIVITY:

(ARC Compilation)

(1) HIGHER:

* *Ships intercom, cctv, and dial telephone to elements on same ship (when afloat).*

* *Ships GENSER Communications Center (SCC) for secure worldwide GENSER voice and teletype communications (when afloat).*

* *Ships Signals Exploitation Space (SSES) for secure worldwide voice and teletype special intelligence communications (SPINTCOMM) including TACINTEL (when afloat).*

* *Established tactical Special Security Communications Center (SSCC) for secure worldwide special intelligence communications (SPINTCOMM) (when established ashore).*

* *Established Tactical GENSER Communications Center (TCC) for secure GENSER Teletype communications (when ashore).*

- * *LF secure and non-secure voice radio and wireline communications circuits (when established ashore).*

(2) **ADJACENT:**

- * *Ships intercom, cctv, and dial telephone to elements on same ship (when afloat).*
- * *Ships GENSER Communications Center (SCC) for secure GENSER voice and teletype communications to other ATF ships and/or units (when afloat).*
- * *LF secure and non-secure voice radio and wireline communications circuits (when established ashore).*

(3) **LOWER:**

- * *LF secure and non-secure voice radio communications circuits (when established ashore).*

8. **PRIMARY SYSTEMS EMPLOYED:**

(ARC Compilation)

The systems used by the FIIC are a combination of specialized imagery interpretation systems, portable computer systems for report writing, data base development, and intelligence processing, and manual systems for annotation of hardcopy imagery products. Some or all of the following systems may be used by the FIIC:

- * *AN/TYQ-12(V)2 - Imagery Interpretation (II) Segment*
- * *ES-40A - Imagery Processing (IP) Segment*
- * *Joint Services Imagery Processing System (JSIPS)*
 - * *National Input Segment (NIS)*
 - * *Tactical Input Segment (TIS)*
 - * *Secondary Imagery Dissemination Systems (SIDS)*
- * *Intelligence Analysis System (IAS) Workstation (as required)*
- * *Tactical Combat Operations (TCO) software (as required)*
- * *AN/UYK-83 or AN/UYK-85 (FMF-EUCE)*
- * *Portable and installed imagery light tables*
- * *IBM Compatible Portable Computer Systems*

9. **OPTIONAL SYSTEMS EMPLOYED:**

(ARC Compilation)

Elements within the SRIG and from the JTF, Theater CINC, and rapid response national and/or SOF liaison teams employ a variety of portable computer, communications, imagery, and surveillance systems

that may be used in FIIC spaces during operations afloat or ashore. The following optional systems may be employed:

- * *Tactical Video Transmission Systems (TVTS)*
- * *Various portable Secondary Imagery Dissemination Systems (SIDS)*
- * *Various compartmented programs to conduct special reconnaissance and intelligence operations*

10. **REPORTS/PRODUCTS PROVIDED:**

(ARC Compilation)

- * *Annotated imagery products*
- * *Reconnaissance Exploitation Reports (RECCEXREP)*
- * *Hot Photo Reports (HOTPHOTOREP)*
- * *Imagery Interpretation Reports (IPIR)*
- * *Supplemental Photo Imagery Reports (SUPIR)*
- * *Multimission Imagery Photo Interpretation Reports (MIPIR)*
- * *Special imagery analysis and interpretation products/studies*

1. LONG TITLE: INTERROGATION TRANSLATION OPERATIONS CENTER / INTERROGATION FACILITY
2. SHORT TITLE: ITOC/IF
3. REFERENCES:
 - A. FMFM 3-21 MAGTF INTELLIGENCE OPERATIONS
 - B. FMFRP 3-28 TRI-MEF STANDING OPERATING PROCEDURES FOR FIELD INTELLIGENCE OPERATIONS, 12 JULY 1989

4. MISSION:

(ARC Compilation)

To coordinate Interrogation/Translation activities of the MAGTF and to oversee the administrative and logistical requirements of attached Interrogation Translation Teams, the Interrogation Facility (IF), the Captured Document Exploitation Center (CDEC), and the Captured Materiel Exploitation Center (CMEC).

5. DESCRIPTION:

(ARC Compilation)

The ITOC/IF is the MAGTF's coordinating agency and designated facility for interrogation, translation, interpretation, and exploitation of enemy personnel, documents, and equipment to develop enemy military, economic, technical, or scientific information of tactical or operational intelligence value. It is normally established in close proximity to the MAGTF Enemy Prisoner of War (EPW) compound established and administered by the CSSE. The ITOC/IF receives intelligence collection guidance and direction from the MAGTF CIC then prioritizes enemy personnel interrogations as well as document or equipment/material exploitations conducted within the IF, CDEC, and CMEC respectively.

6. FUNCTIONS:

(ARC Compilation)

- * To plan, coordinate, and direct all enemy interrogations or exploitation of captured documents, equipment, or material within the assigned MAGTF operational area.*
- * To plan, coordinate, and direct personnel, administrative, and logistics requirements of the IF, CDEC, and CMEC.*
- * To maintain constant coordination with the MAGTF CIC and ensure that MAGTF information and intelligence requirements on all enemy personnel, equipment, and material are provided to the IF, CDEC, and CMEC as appropriate.*
- * To maintain constant coordination with the OIC EPW compound concerning newly arrived EPW/detainees and the required control, handling and security matters.*

* *To maintain appropriate status boards, reports, and maps pertinent to IF, CDEC, and CMEC activities.*

* *To receive, review, and forward IF, CDEC, and CMEC reports in a rapid and timely manner as directed.*

7. ESTABLISHMENT:

(ARC Completion)

A. INITIATING AUTHORITY:

Commanding Officer or Detachment OIC, SRIG/SRIG Detachment

B. CONTROLLING AUTHORITY:

Landing Force (MAGTF) G/S-2

C. SUPERVISING AUTHORITY:

Designated ITOC/IF Officer-In-Charge (OIC)

D. ORGANIZATIONAL STRUCTURE:

- * *OIC*
- * *SNCOIC/Interrogation Chief*
- * *Administrative assistants*

E. MANNING:

(ARC Completion)

The ITOC/IF will be manned by the Interrogation / Translation assets of the Intelligence Company/Detachments and other attached or assigned intelligence specialists of the SRIE.

F. LOCATION:

(ARC Completion)

(1) AFLOAT:

* *The ITOC/IF is not normally established afloat. However, in those cases during afloat operations where EPW/detainees require screening/interrogation and enemy equipment or material require immediate exploitation, a temporary ITOC/IF will be established in a secure and segregated area of the ship.*

(2) ASHORE:

* *The ITOC/IF will normally be collocated with the CSSE's EPW/detainee facility established in a designated and isolated secure location.*

G. COORDINATION:

(ARC Compilation)

(1) HIGHER:

SRIG/SRIG DET-CC (if established)

LFOC (when afloat)

LFSP (when afloat)

JIC (when afloat)

MAGTF COC

CSSOC

MAGTF CIC

(2) ADJACENT:

SARC

GCE CIC

SCC (when afloat)

OCAC

GCE COC

TCC

(3) LOWER:

IF

CDEC

CMEC

H. COMMUNICATIONS CONNECTIVITY:

(ARC Compilation)

(1) HIGHER:

- * ***Ships intercom, cctv, and dial telephone to elements on same ship (when afloat).***
- * ***Ships GENSER Communications Center (SCC) for secure worldwide GENSER voice and teletype communications (when afloat).***
- * ***Established Tactical GENSER Communications Center for secure worldwide GENSER teletype communications (when ashore).***
- * ***Established LF secure and non-secure radio and wireline communications circuits (when ashore).***

(2) ADJACENT:

- * ***Ships intercom, cctv, and dial telephone to elements on same ship (when afloat).***
- * ***Ships GENSER Communications Center (SCC) for secure GENSER voice and teletype communications to other ATF ships and/or units (when afloat).***
- * ***Established LF secure and non-secure radio and wireline communications circuits (when ashore).***

(3) LOWER:

- * *Ships intercom, cctv, and dial telephone systems to other elements on same ship (when afloat).*
- * *Established LF secure and non-secure radio and wireline communications circuits (when ashore).*

8. PRIMARY SYSTEMS EMPLOYED:

(ARC Compilation)

The systems available for use in the ITOC/IF will be a combination of manual and automated systems for primarily recording interrogations, translating foreign documents, preparing and disseminating reports, and maintaining the status of the IF, CDEC, and CMEC activities. Some or all of the following systems may be used within an ITOC/IF:

- * *Portable Video Camera Systems.*
- * *Portable Audio Recording Systems.*
- * *Automated Translation/Transcription Aids or software programs.*
- * *AN/UYK-83 or AN/UYK-85 (FMF-EUCE)*
- * *IBM Compatible Portable Computer systems.*
- * *Various portable Secondary Imagery Dissemination Systems (SIDS)*
- * *Tactical Video Transmissions Systems (TVTS)*
- * *Intelligence Analysis System (IAS) Workstation*

9. OPTIONAL SYSTEMS EMPLOYED:

(ARC Compilation)

Unknown

10. REPORTS/PRODUCTS PROVIDED:

(ARC Compilation)

- * *Spot Reports (SPOTREP)*
- * *Tactical Interrogation Reports*
- * *Detailed Interrogation Reports*
- * *Document Translation Reports*
- * *Complementary Technical Reports (COMTECHREP) - Type A (enemy aircraft)*
- * *Complementary Technical Reports (COMTECHREP) - Type B (enemy ammunition, missiles, rockets, explosives etc)*
- * *Complementary Technical Reports (COMTECHREP) - Type C (enemy equipment not covered by Type A or B)*

1. LONG TITLE: CAPTURED DOCUMENT EXPLOITATION CENTER
2. SHORT TITLE: CDEC
3. REFERENCES: A. FMFM 3-21 MAGTF INTELLIGENCE OPERATIONS
B. FMFRP 3-28 TRI-MEF STANDING OPERATING PROCEDURES FOR FIELD INTELLIGENCE OPERATIONS, 12 JULY 1989

4. MISSION:

(FMFRP 3-28, p 13-5)

To receive, exploit, and forward, if required, all written, printed, drawn, or photographed material captured by MAGTF elements.

5. DESCRIPTION:

(ARC Compilation)

The CDEC is a designated space or facility where all enemy documents obtained by MAGTF elements are forwarded for exploitation. The CDEC receives enemy documents, maintains records, and conducts detailed translation, interpretation and reporting of all enemy documents obtained. The CDEC responds to tasking received through the ITOC/IF.

6. FUNCTIONS:

(ARC Compilation)

- * *To conduct detailed translation, recording and reporting on all enemy documents obtained by MAGTF or other units as directed.*
- * *To provide limited interpretation of translated documents.*
- * *To maintain accurate and detailed records of captured enemy documents received by the CDEC for translation.*
- * *To maintain appropriate foreign language translation and interpretation aids and materials required to perform CDEC duties.*

7. ESTABLISHMENT:

(ARC Compilation)

A. INITIATING AUTHORITY:

Commanding Officer or Detachment OIC, SRIG/SRIG Detachment

B. CONTROLLING AUTHORITY:

Designated ITOC/IF OIC

C. SUPERVISING AUTHORITY:

Designated CDEC OIC

D. ORGANIZATIONAL STRUCTURE:

(PMFRF 3-28 pg

13-5)

- * CDEC OIC
- * CDEC Chief
- * Assigned Translators

E. MANNING:

(ARC Compilation)

The CDEC will be manned by Interrogation / Translation assets of the Intelligence Company/Detachments and other attached or assigned intelligence specialists of the SRIG/SRIG Detachment.

F. LOCATION:

(ARC Compilation)

(1) AFLOAT:

* *The CDEC is not normally established afloat. However, in those cases where captured or obtained foreign language documents require screening, interpretation, or immediate exploitation, a temporary CDEC will be established in a designated space aboard ship where the documents may be secured and translators may conduct exploitation without distractions.*

(2) ASHORE:

* *The CDEC will normally be collocated with the ITOC/IF in the CSSE's designated EPW/detainee facility.*

G. COORDINATION:

(ARC Compilation)

(1) HIGHER:

SRIG/SRIG DET-CC (if established)

ITOC/IF

LFOC (when afloat)

LFSP (when afloat)

JIC (when afloat)

MAGTF COC

CSSOC

MAGTF CIC

(2) ADJACENT:

SARC

GCE CIC

OCAC

GCE COC

CMEC

(3) LOWER:

- * None

H. COMMUNICATIONS CONNECTIVITY:

(ARC Compilation)

(1) HIGHER:

- * *Ships intercom, cctv, and dial telephone to elements on same ship (when afloat).*
- * *Ships GENSER Communications Center (SCC) for secure worldwide GENSER voice and teletype communications (when afloat).*
- * *Established Tactical GENSER Communications Center (TCC) for secure worldwide GENSER teletype communications (when ashore).*
- * *Established LF secure and non-secure radio and wireline communications circuits (when ashore).*

(2) ADJACENT:

- * *Ships intercom, cctv, and dial telephone to elements on same ship (when afloat).*
- * *Ships GENSER Communications Center (SCC) for secure GENSER voice and teletype communications to other ATF ships and/or units (when afloat).*
- * *Established LF secure and non-secure radio and wireline communications circuits (when ashore).*

(3) LOWER:

- * *Established LF secure and non-secure radio and wireline communications circuits to deployed Interrogator / Translator teams.*

8. PRIMARY SYSTEMS EMPLOYED:

(ARC Compilation)

The systems available for use in the CDEC will be both manual and automated systems used for record keeping, documenting and translating foreign documentation. Some or all of the following systems may be used within a CDEC:

- * *AN/UYK-83 or AN/UYK-85 (FMF-EUCE)*
- * *IBM Compatible Portable Computer systems*
- * *Automated Translation/Transcription Aids or software programs*
- * *Manual Interpretation Aids*
- * *Intelligence Analysis System (IAS) Workstation (as required)*

9. **OPTIONAL SYSTEMS EMPLOYED:**

(ARC Compilation)

Unknown

10. **REPORTS/PRODUCTS PROVIDED:**

(ARC Compilation)

- * *Spot Reports (SPOTREP)*
- * *Document Translation Reports*

1. LONG TITLE: CAPTURED MATERIAL EXPLOITATION CENTER
2. SHORT TITLE: CMEC
3. REFERENCES:
 - A. FMFM 3-21 MAGTF INTELLIGENCE OPERATIONS
 - B. FMFRP 3-28 TRI-MEF STANDING OPERATING PROCEDURES FOR FIELD INTELLIGENCE OPERATIONS, 12 JULY 1989

4. MISSION: (FMFRP 3-28, p 13-6)
To exploit captured material obtained by MAGTF elements for the acquisition of technical information of operational and intelligence value.

5. DESCRIPTION: (ARC Compilation)
The CMEC is a designated space or facility where all enemy material and equipment obtained by MAGTF elements are analyzed and exploited except in those cases where the captured enemy items are too large for transport. The CMEC will receive, temporarily store, and maintain records, of all enemy and other foreign material or equipment obtained. The CMEC responds to tasking received through the ITOC/IF and will dispatch exploitation teams to evaluate items too large to transport to the CMEC.

6. FUNCTIONS: (ARC Compilation)
- * *To conduct detailed translation, recording and reporting on all enemy material and/or equipment obtained by MAGTF or other units as directed.*
 - * *To provide limited interpretation and exploitation of enemy material and/or equipment.*
 - * *To maintain accurate and detailed records of captured enemy material and/or equipment received by the CMEC for exploitation.*
 - * *To maintain appropriate foreign language translation and interpretation aids and materials required to perform CMEC duties.*
 - * *To maintain appropriate foreign material and equipment technical documents and manuals required to perform CMEC duties.*

7. ESTABLISHMENT: (ARC Compilation)
- A. INITIATING AUTHORITY:
Commanding Officer or Detachment OIC, SRIG/SRIG Detachment
 - B. CONTROLLING AUTHORITY:

Designated ITOC/IF OIC

C. SUPERVISING AUTHORITY:

Designated CMEC OIC

D. ORGANIZATIONAL STRUCTURE:

(FMFRP 3-28, pg

13-6)

- * CMEC OIC
- * CMEC Chief
- * Assigned assistants, translators, and/or working parties

E. MANNING:

(ARC Compilation)

The CMEC will be manned by Interrogation / Translation assets of the Intelligence Company/Detachments and other attached or assigned intelligence specialists of the SRIG/SRIG Detachment.

F. LOCATION:

(ARC Compilation)

(1) AFLOAT:

* *The CMEC is not normally established afloat. However, in those cases where captured or obtained foreign material and/or equipment require screening, interpretation, or immediate exploitation, a temporary CMEC will be established in a designated space aboard ship where the material may be secured and CMEC personnel may conduct exploitation without distractions.*

(2) ASHORE:

* *The CMEC will normally be collocated with the ITOC/IF and the CDEC in the CSSE's designated EPW/detainee facility.*

G. COORDINATION:

(ARC Compilation)

(1) HIGHER:

SRIG/SRIG DET-CC (if established)

ITOC/IF

LFOC (when afloat)

LFSP (when afloat)

JIC (when afloat)

MAGTF COC

CSSOC

MAGTF CIC

(2) ADJACENT:

SARC

GCE CIC

OCAC
CDEC

GCE COC

- (3) LOWER:
* None

H. COMMUNICATIONS CONNECTIVITY:

(ARC Compilation)

(1) HIGHER:

- * Ships intercom, cctv, and dial telephone to elements on same ship (when afloat).
- * Ships GENSER Communications Center (SCC) for secure worldwide GENSER voice and teletype communications (when afloat).
- * Established Tactical GENSER Communications Center (TCC) for secure worldwide GENSER teletype communications (when ashore).
- * Established LF secure and non-secure radio and wireline communications circuits (when ashore).

(2) ADJACENT:

- * Ships intercom, cctv, and dial telephone to elements on same ship (when afloat).
- * Ships GENSER Communications Center (SCC) for secure GENSER voice and teletype communications to other ATF ships and/or units (when afloat).
- * Established LF secure and non-secure radio and wireline communications circuits (when ashore).

(3) LOWER:

- * Established LF secure and non-secure radio and wireline communications circuits to deployed Interrogator / Translator teams.

8. PRIMARY SYSTEMS EMPLOYED:

(ARC Compilation)

The systems available for use in the CMEC will be both manual and automated systems used for record keeping, documenting, translating, and interpreting foreign material or equipment. Some or all of the following systems may be used within a CMEC:

- * AN/UYK-83 or AN/UYK-85 (FMF-EUCE)
- * IBM Compatible Portable Computer systems

- * *Automated Translation/Transcription Aids or software programs*
- * *Manual Interpretation Aids*
- * *Portable Video Camera Systems*
- * *Still Picture Camera Systems*
- * *Tactical Video Transmission Systems (TVTS)*
- * *Intelligence Analysis System (IAS) Workstation (as required)*

9. **OPTIONAL SYSTEMS EMPLOYED:**

(ARC Compilation)

Unknown

10. **REPORTS/PRODUCTS PROVIDED:**

(ARC Compilation)

- * *Spot Reports (SPOTREP)*
- * *Complementary Technical Reports (COMTECHREP) - Type A (enemy aircraft)*
- * *Complementary Technical Reports (COMTECHREP) - Type B (enemy ammunition, missiles, rockets, explosives etc)*
- * *Complementary Technical Reports (COMTECHREP) - Type C (enemy equipment not covered by Type A or B)*

1. LONG TITLE: SPECIAL SECURITY COMMUNICATION CENTER
2. SHORT TITLE: SSSC
3. REFERENCES:
- | | | |
|----|-----------|--|
| A. | CMC | MARINE CORPS COMMAND AND CONTROL MASTER PLAN (3 AUG 1987) |
| B. | MCCDC | MAGTF INTEROPERABILITY REQUIREMENTS CONCEPTS (MIRC) (4 MAY 1990) |
| C. | FMFM 3-21 | MAGTF INTELLIGENCE OPERATIONS |

4. MISSION: (ARC Compilation)

To transmit, receive, process, and deliver, special intelligence communications (SPINTCOMM) and critical communications (CRITICOMM) message traffic.

5. DESCRIPTION: (ARC Compilation)

The SSSC is the designated facility that is responsible for providing record copy special intelligence/special security communications support to the MAGTF Command Element and specified subordinate elements. SSSC's are composed of the communications and cryptographic terminal equipment and personnel with special security clearances that provide the access to the Defense Special Security Communications System (DSSCS).

6. FUNCTIONS/TASKS/DUTIES: (ARC Compilation)

- * *Transmit, receive, process, and store special intelligence/special security message traffic which is destined for or relayed through a specified command and control facility from senior, adjacent, and subordinate commands, agencies, or units.*
- * *Route and distribute special intelligence/special security messages internally to specified commands, units, or sections.*
- * *Maintain records, files, and logs and prepare special intelligence/special security communications reports as directed.*
- * *Coordinate installation and maintenance of all SSSC equipment.*
- * *Check all outgoing special intelligence/special security traffic before transmission and review traffic after transmission to ensure message accuracy and check all incoming traffic prior to internal distribution as directed.*

7. ESTABLISHMENT:

(ARC Compilation)

A. INITIATING AUTHORITY:

Supported MAGTF CE or Subordinate Element Commander

B. CONTROLLING AUTHORITY:

MAGTF or Subordinate Element G/S-2

C. SUPERVISING AUTHORITY:

Respective Radio Bn Commanding Officer (MAGTF CE level)

Respective Officer-In-Charge, Special Security Communications Team (SSCT)

D. ORGANIZATIONAL STRUCTURE:

- * *SSCC OIC*
- * *SSCC NCOIC*
- * *SSCC Watch Supervisors*
- * *SSCC Communications watch personnel*

E. MANNING:

(ARC Compilation)

Manning of SSCC's are the responsibility of each respective Radio Battalion (Communications Platoon, Headquarters and Service (H&S) Company) for special intelligence/special security communications support to the designated MAGTF CE and the assigned Special Security Communications Team's (SSCT's) for the respective ACE (Marine Air Wing (MAW) level) or GCE (Marine Division (DIV) level) operation. Radio Battalion or SSCT special security communications personnel assignments are based on established Table of Organizations (T/O) and Marine Corps assignment policies. Personnel augmentation for deployed SSCC's must come from other SSCT's, the Radio Battalion's, or Marine Support Battalion, Naval Security Group Command.

F. LOCATION:

(ARC Compilation)

(1) AFLOAT:

During afloat operations, SSCC personnel augment the Special Intelligence Communications (SPINTCOMM) facility within the Ship's Signals Exploitation Space (SSES) to ensure SPINTCOMM support for the Landing Force (MAGTF) is provided.

(2) ASHORE:

SSCC's are normally collocated in the Command Post (CP) of the supported MAGTF CE or subordinate ACE or GCE. Within the CP area, the SSCC will be placed in close proximity to the respective MAGTF, ACE, or GCE CIC or the Radio Battalion OCAC and must be within the confines of a designated Tactical - Special Compartmented Information Facility (T-SCIF).

G. COORDINATION:

(ARC Compilation)

(1) HIGHER:

TFCC/FP (when afloat)
JIC (when afloat)
JSCC (when afloat and if established)
OSCC (if established)
MAGTF CC (if established)
MAGTF COC (if MAGTF CC is not established)
MAGTF CIC
SRIG/SRIG DET-CC (if established)

(2) ADJACENT:

SSES (when afloat) LFOC (when afloat) SCC (when afloat)
S/EWCC TCC (when ashore)
OCAC (when ashore) Other OSCC's
Other SSCC's

(3) LOWER:

* *None*

H. COMMUNICATIONS CONNECTIVITY:

(ARC Compilation)

A. HIGHER:

- * *Ships intercomm, cctv, and dial telephone to elements/functional centers on same ship.*
- * *Ship's GENSER Communications Center (SCC) for communications circuit path.*
- * *NAVCAMS or NAVCOMSTA shore installations*
- * *Designated Defense Communications Agency (DCA) facilities and other specified DOD communications facilities or stations for access to the Defense Special Security Communications System (DSSCS).*
- * *Shorebased communications path as directed by OSCC.*
- * *Established tactical secure and non-secure radio and wireline communications circuits (when ashore).*

B. ADJACENT:

- * *Ships intercom, cctv, and dial telephone to elements/functional centers on same ship.*

- * *Ships GENSER Communications Center (SCC) for communications circuit path.*
- * *NAVCAMS or NAVCOMSTA shore installations.*
- * *Designated Defense Communications Agency (DCA) facilities and other specified DOD communications facilities or stations for access to the Defense Special Security Communications System (DSSCS).*
- * *Special Reporting and Analysis Circuit (SPRAC) for secure special intelligence (S.I.) voice communications to other cryptologic elements in the Area of Operations (AO).*
- * *Shorebased communications path as directed by OSCC.*
- * *Established tactical secure and non-secure radio and wireline communications circuits (when ashore).*

C. LOWER:

- * *None*

8. PRIMARY SYSTEMS EMPLOYED:

(ARC Compilation)

When afloat, the equipment used by SSCC's within the Ship's Signals Exploitation Spaces will depend on the type of ship and individual ship configuration. Some or all of the following systems may be installed in a SSCC within the SSES:

- * *Model 28 or Model 40 terminal teletype equipment*
- * *KW-7, KWR-37, KWR-46, KY-58, KY-75, and/or KG-84C cryptographic devices*
- * *AN/SYQ-7 (V) () - Navy Modular Automated Communications System (NAVMACS)*
- * *Common-User Digital Information Exchange Subsystem (CUDIX)*
- * *NAVMACS/CUDIXS Subsystems*
 - * *Secure Voice Subsystem*
 - * *Tactical Intelligence (TACINTEL) Subsystem*
 - * *Teletypewriter (ORESTES) Subsystem*
 - * *Tactical Data Information Exchange Subsystem (TADIXS)*
 - * *Demand Assigned Multiple Access (DAMA) Subsystem*

When ashore, the SSCC will primarily use the following equipment:

- * *AN/MSC-63A - Special Security Communications Central*
- * *AN/UCG-74C - Communications Teletype Terminal (bench-mounted)*
- * *KG-84C - Cryptographic device (bench-mounted)*

9. OPTIONAL SYSTEMS EMPLOYED:

(ARC Compilation)

MAGTF, JTF, Theater CINC and rapid response national and/or Special Operations Force (SOF) communications teams employ a variety of computers and communications systems that may be used as or within a SSCC. The following systems may be used in these circumstances:

- * *AN/UYK-83 or AN/UYK-85 (FMF-EUCE) (as terminal devices)*
- * *IBM Compatible Portable Computer Systems (as terminal devices)*
- * *Commercial modems*
- * *Portable SATCOM systems providing secure voice, teletype, and facsimile communications.*

10. REPORTS/PRODUCTS PROVIDED:

(ARC Compilation)

- * *Special Intelligence/special security message traffic*
- * *Circuit activation/deactivation reports*
- * *Circuit status reports*
- * *Circuit outage reports*

1. LONG TITLE: SURVEILLANCE, RECONNAISSANCE, AND INTELLIGENCE GROUP/SURVEILLANCE, RECONNAISSANCE, AND INTELLIGENCE GROUP DETACHMENT - COMMAND CENTER

2. SHORT TITLE: SRIG/SRIG DET-CC

3. REFERENCES: A. FMFM 3-1 COMMAND AND STAFF ACTION

4. MISSION: (ARC Compilation)
To provide the MAGTF Surveillance, Reconnaissance, and Intelligence Group/Detachment (SRIG/DET) Commander with the capability to effectively direct, control, and monitor assigned and attached forces as required.

5. DESCRIPTION: (ARC Compilation)
The SRIG/SRIG DET-CC is a space or facility designated by the SRIG/Detachment Commander that serves as the overall command and control center for all operations and missions performed by elements assigned or attached to the SRIG/SRIG Detachment. The SRIG/SRIG DET-CC provides the SRIG/Detachment Commander with the capability to assign, monitor, and influence the employment of SRIG/SRIG Detachment subordinate units when conducting appropriate surveillance, reconnaissance, intelligence, counterintelligence, electronic warfare, communications, and direct action missions in support of MAGTF operations. A SRIG/SRIG DET-CC is not always established as a separate space or facility and in most cases the SRIG/SRIG Detachment Commander will specify a common location where he will oversee, monitor, and influence the activities of his subordinate units.

6. FUNCTIONS: (ARC Compilation)

- * *Exercise overall command of assigned elements/units of the SRIG/SRIG Detachment.*
- * *Monitor the activities of subordinate units with the capability to maintain command oversight of assigned and attached units.*
- * *Oversee the implementation of the applicable tasks contained in the MAGTF organic intelligence collection plan.*
- * *Oversee the implementation of the applicable tasks contained in the MAGTF Operations Plan/Order for SRIG direct action, tactical deception, and control of supporting arms activities.*
- * *Oversee the implementation of the applicable tasks contained in the MAGTF Communications plan.*

- * *Oversee the implementation of the applicable tasks contained in the MAGTF Electronic Warfare plan.*
- * *Display tactical and operational information concerning the employment of SRIG/SRIG Detachment assigned and attached units.*
- * *Communicate with SRIG/SRIG Detachment assigned forces, other MAGTF elements, or adjacent commands (as required).*
- * *Provide a space or facility for SRIG/SRIG Detachment operational briefings and situation updates for the SRIG/SRIG Detachment and subordinate commanders.*

7. ESTABLISHMENT:

(ARC Compilation)

The SRIG/SRIG DET-CC is established and activated upon direction of the SRIG/Detachment Commander.

A. INITIATING AUTHORITY:

SRIG/SRIG Detachment Commander

B. CONTROLLING AUTHORITY:

SRIG Executive Officer or Assistant SRIG Detachment Commander

C. SUPERVISING AUTHORITY:

SRIG Operations Officer or Assistant SRIG Detachment Commander

D. ORGANIZATIONAL STRUCTURE:

- * *SRIG/SRIG Detachment Commander*
- * *SRIG Executive Officer or Assistant SRIG Detachment Commander*
- * *SRIG Operations Officer (S-3)*
- * *SRIG Logistics Officer (S-4)*
- * *SRIG Communications Officer (CEO)*
- * *Appropriate assistants, communications, and liaison personnel (as required).*
- * *Watch sections (if required).*

E. MANNING:

(ARC Compilation)

Manning of the SRIG/SRIG DET-CC will be directed by the SRIG/SRIG Detachment Commander and implemented by the SRIG Executive Officer or Assistant SRIG Detachment Commander.

1 *SRIG/SRIG DET-CC spaces are manned by personnel from the SRIG/SRIG Detachment staff and may be augmented by required personnel from subordinate SRIG/SRIG Detachment units. If a SRIG/SRIG DET-CC is formally established, personnel manning must be sufficient to establish at least two watch sections in order to maintain sustained 24 hour operations.*

F. LOCATION:

(ARC Compilation)

(1) AFLOAT:

If established afloat, the SRIG/SRIG DET-CC will be imbedded within the SARC, LFOC, or the best space afloat that the SRIG/SRIG Detachment Commander can exercise and maintain command authority over SRIG/SRIG Detachment assigned and attached units.

(2) ASHORE:

If a separate SRIG/SRIG DET-CC is established, it will be located in the main MAGTF Command Post (CP) area and will be situated within close proximity of the MAGTF CIC, MAGTF COC, SARC, and Radio Battalion OCAC.

G. COORDINATION:

(ARC Compilation)

(1) HIGHER:

- * *ATF TFCC/FP (afloat)*
- * *JIC (afloat)*
- * *LFOC (afloat)*
- * *JSCC or OSCC (afloat)*
- * *MAGTF CC (if established)*
- * *MAGTF COC (ashore)*
- * *MAGTF CIC (ashore)*

(2) ADJACENT:

- * *SACC (when afloat)*
- * *ACE TACC*
- * *GCE Command Center (GCE CC) (if established) or GCE COC*
- * *CSSE CSSOC*

(3) LOWER:

- * *All assigned, attached, and subordinate commands/units within the SRIG/SRIG Detachment.*

H. COMMUNICATIONS CONNECTIVITY:

(ARC Compilation)

(1) **HIGHER:**

- * *Ships intercom, cctv, and dial telephone to elements/units on same ship (when afloat).*
- * *Ships GENSER Communication Center (SCC) for secure worldwide GENSER voice and teletype communications (if afloat).*
- * *Ships Signals Exploitation Space (SSES) for secure worldwide special intelligence communications (SPINTCOMM) (if afloat).*
- * *Established secure and non-secure tactical wireline and telephone circuits.*
- * *Established Tactical GENSER Communications Center (TCC) for secure worldwide GENSER teletype communications.*
- * *Established MAGTF Special Security Communications Center (SSCC) for secure worldwide voice and teletype special intelligence communications (SPINTCOMM).*
- * *Established secure and non-secure tactical radio circuits.*

(2) **ADJACENT:**

- * *Ships intercom, cctv, and dial telephone to elements or centers on same ship (when afloat).*
- * *Ships GENSER Communications Center (SCC) for secure GENSER voice and teletype communications to other ships and/or units (when afloat).*
- * *Established MAGTF Tactical GENSER Communications Center (TCC) for secure GENSER teletype communications.*
- * *Established MAGTF Special Security Communications Center (SSCC) for secure voice and teletype special intelligence communications (SPINTCOMM).*
- * *Established secure and non-secure tactical wireline and telephone circuits.*
- * *Established secure and non-secure tactical radio circuits.*

(3) **LOWER:**

- * *Ships intercom, cctv, and dial telephone to elements/functional centers on same ship (when afloat).*
- * *Ships GENSER Communications Center (SCC) for secure GENSER voice and teletype communications to other ships (when afloat).*
- * *Established secure and non-secure tactical wireline and telephone circuits.*

- * *Established MAGTF Tactical GENSER Communications Center (TCC) for secure GENSER teletype communications.*
- * *Established MAGTF Special Security Communications Center (SSCC) for secure voice and teletype special intelligence communications (SPINTCOMM).*
- * *Established secure and non-secure tactical radio circuits.*

8. PRIMARY SYSTEMS EMPLOYED:

(ARC Compilation)

The systems employed by a SRIG/SRIG DET-CC will depend on the capabilities required and the desires of the SRIG/SRIG Detachment Commander. The capabilities could vary from the SRIG/SRIG Detachment Commander placing himself in a common location where he can monitor and influence the activities of subordinate units to a simple briefing area/facility for assembly of his subordinate commanders to a complete command and control center with established communications and automated systems. If established, a SRIG/SRIG DET-CC will likely have a combination of systems that will range from manually plotted situation maps, briefing space, voice or digital radio communications systems, and portable computer systems. Some or all of the following systems may be found in a SRIG/SRIG DET-CC:

- * *AN/UYQ-83 or AN/UYQ-85 (FMF-EUCE)*
- * *Tactical Combat Operations (TCO) software*
- * *Intelligence Analysis System (IAS) Workstation*
- * *AN/USQ-90 - Position Location Reporting System (PLRS)*
 - * *AN/TSQ-129 - Position Location Reporting System - Master Station / Alternate Master Station (PLRS-MS)*
 - * *RT-1343/TSQ-129 - Position Location Reporting System - User Unit (PLRS-UU)*
- * *NAVSTAR Global Positioning System (GPS) user equipment*
- * *AN/PSC-2A - Digital Communications Terminal (DCT)*
- * *Various single channel HF/VHF/UHF radio systems*
- * *Manually plotted situation maps and status boards*

9. OPTIONAL SYSTEMS EMPLOYED:

(ARC Compilation)

MAGTF, JTF, Theater CINC and rapid response national and/or Special Operations Force (SOF) liaison teams employ various portable computer and communications systems that may be utilized in a SRIG-CC during joint/contingency operations. The following optional systems may be used:

- * *IBM Compatible Portable Computer Systems.*

- * *Portable SATCOM systems providing secure voice, teletype, and facsimile communications.*
- * *Tactical Video Transmission Systems (TVTS).*

10. **REPORTS/PRODUCTS PROVIDED:**

(ARC Compilation)

- * *SRIG/SRIG Detachment operational estimates and courses of action*
- * *SRIG/SRIG Detachment operational plans/orders*
- * *SRIG/SRIG Detachment operational situation reports*
- * *SRIG/SRIG Detachment situation maps and overlays*
- * *SRIG/SRIG Detachment status reports*

1. LONG TITLE: MARINE AIR-GROUND TASK FORCE COMBAT OPERATIONS CENTER
2. SHORT TITLE: MAGTF COC
3. REFERENCES:
- A. FMFM 2 THE MARINE AIR-GROUND TASK FORCE
 - B. FMFM 3-30 COMMUNICATIONS
 - C. OH 1-100 JOINT DOCTRINE FOR LANDING FORCE OPERATIONS
 - D. FMFRP 3-28 TRI-MEF STANDING OPERATING PROCEDURES FOR FIELD INTELLIGENCE OPERATIONS (12 JULY 89)
 - E. MCCDC MAGTF INTEROPERABILITY REQUIREMENTS CONCEPTS (MIRC) (4 MAY 1990)

4. MISSION:

(ARC Compilation)

To direct, control, coordinate, monitor, record, and supervise the tactical operations of the elements under the operational control of the MAGTF Commander.

5. DESCRIPTION:

(ARC Compilation)

The MAGTF COC is the primary control agency of the MAGTF Command Element. It provides the facilities and equipment required for command and control of MAGTF elements during subsequent operations ashore. The MAGTF COC supports MAGTF planning and operations as a whole and is normally composed of selected staff representatives, required liaison personnel from subordinate, supporting, and adjacent units, and requisite communications personnel and equipment.

6. FUNCTIONS:

(ARC Compilation)

- * *Exercise overall command, control, and coordination of MAGTF elements.*
- * *Direct, control, and coordinate subordinate, supporting, and adjacent units, issue necessary operational directives, and supervise MAGTF operations as directed by the MAGTF commander.*
- * *Acquire and maintain current information concerning the status and operation of the MAGTF as a whole.*
- * *Issue MAGTF operational plans and orders.*
- * *Establishes measures to coordinate and control MAGTF operations.*

- * *Monitor status of ACE, GCE, CSSE, and SRIG/SRIG Detachment assets and operations.*
- * *Provides appropriate air defense alert conditions to MAGTF elements.*
- * *Receives, monitors and forwards (as required) information and reports from senior, adjacent, and subordinate commands.*
- * *Initiates support requests when available means are insufficient.*
- * *Receives and disseminates combat information as required.*
- * *Prepares and submits operational reports to higher headquarters.*
- * *Receives and disseminates weather data to MAGTF elements.*
- * *Reports NBC events and incidents.*
- * *Receives supporting arms reports and maintains supporting arms status.*

7. ESTABLISHMENT:

(ARC Compilation)

A. INITIATING AUTHORITY:

MAGTF COMMANDER

B. CONTROLLING AUTHORITY:

MAGTF COMMANDER

C. SUPERVISING AUTHORITY:

MAGTF G/S-3

D. ORGANIZATIONAL STRUCTURE:

(ARC Compilation)

- * *MAGTF Operations Officer (G/S-3)*
- * *MAGTF G-3 Section*
- * *COC Watch Officers*
- * *Supporting Arms Special Staff (SASS)*
- * *COC Intelligence Watch Unit*
 - * *COC Intelligence Watch Officers*
 - * *COC Watch Assistants*
- * *Clerks and administrative personnel.*
- * *Communications personnel and equipment.*

E. MANNING:

(ARC Compilation)

Personnel to man the MAGTF COC are drawn primarily from the MAGTF Command Element (CE) with augmentation from the ACE, GCE, CSSE, or SRIG/SRIG Detachment as required. The MAGTF COC must be manned with sufficient personnel to maintain extended 24 hr operations which normally requires a minimum of a three section watch.

F. LOCATION:

(ARC Compilation)

(1) AFLOAT:

- * *If the MAGTF Commander is designated as the CLF, the MAGTF COC functions will be performed by the LFOC which will normally be located aboard the ATF flagship.*
- * *If the MAGTF is a separate component of a larger landing force, the MAGTF COC will be established aboard the designated MAGTF Commander's command ship.*

(2) ASHORE:

(ARC Compilation)

- * *The MAGTF COC will be located in the main MAGTF Command Post (CP) or as a part of the forward MAGTF command post. The MAGTF CP will be located where the MAGTF Commander determines that he can best facilitate command and control of subordinate elements.*

G. COORDINATION:

(ARC Compilation)

(1) HIGHER:

- * *ATF TFCC/FP*
- * *JTF JOC*
- * *LFOC (if MAGTF is part of a larger LF and MAGTF Commander is not designated as CLF)*
- * *Theater CinC Operations Center*
- * *Airborne Command, Control, and Communications (ABCCC) systems (if utilized)*
- * *American Embassy (if applicable)*

(2) ADJACENT:

JIC (afloat) SACC (afloat) LFSP (afloat) SCC (afloat)
MAGTF CIC FSCC TACLOG GP (afloat) TCC (ashore)
HLSC
SRIG/SRIG DET-CC (if established) SSCC (ashore)
SARC TACC (A) CSSOC (ashore)
SSES (afloat) TACC (ashore)
CIC (afloat)
TIC (afloat)

- * *Other elements of the LF in joint operations.*

(3) LOWER:

- * *All subordinate (assigned and attached) units under MAGTF control*

units.

H. COMMUNICATIONS CONNECTIVITY:

(ARC Compilation)

(1) HIGHER:

- * *Ships intercom, cctv, and dial telephone to elements on the same ship (when afloat).*
- * *Ships GENSER Communications Center (SCC) for secure worldwide GENSER voice and teletype communications (when afloat).*
- * *Ships Signals Exploitation Space (SSES) for secure worldwide voice and teletype special intelligence communications (SPINTCOMM) (when afloat).*
- * *Established MAGTF secure and non-secure wireline and telephone systems (when deployed ashore).*
- * *Established MAGTF Tactical GENSER Communications Center (TCC) for secure worldwide GENSER teletype communications (when established ashore).*
- * *Established MAGTF Special Security Communications Center (SSCC) for secure worldwide voice and teletype special intelligence communications (SPINTCOMM).*
- * *Established MAGTF secure and non-secure voice radio communications circuits (when established ashore).*

(2) ADJACENT:

- * *Ships intercom, cctv, and dial telephone to elements on same ship (when afloat).*
- * *Ships GENSER Communications Center (SCC) for secure GENSER voice and teletype communications to other ships and/or units (when afloat).*
- * *Established MAGTF Tactical GENSER Communications Center (TCC) for secure GENSER teletype communications (when deployed ashore).*
- * *Established MAGTF Special Security Communications Center (SSCC) for secure voice and teletype special intelligence communications (SPINTCOMM) (when deployed ashore).*
- * *Established MAGTF secure and non-secure wireline and telephone systems (when deployed ashore).*

- * *Established MAGTF secure and non-secure GENSER tactical radio circuits (when deployed ashore).*

(3) LOWER:

- * *Ships intercom, cctv, and dial telephone to elements on the same ship (when afloat).*
- * *Ships GENSER Communications Center (SCC) for secure GENSER voice and teletype communications to elements on other ships (when afloat).*
- * *Established MAGTF Tactical GENSER Communications Center (TCC) for secure GENSER teletype communications (when deployed ashore).*
- * *Established MAGTF secure and non-secure wireline and telephone systems (when deployed ashore).*
- * *Established MAGTF secure and non-secure GENSER tactical radio circuits (when deployed ashore).*

8. PRIMARY SYSTEMS EMPLOYED:

(ARC Compilation)

The types of systems available to the MAGTF COC when afloat will depend upon the type of ship used and the individual ship's configuration. See LFOC for more details on afloat systems. During subsequent operations ashore, the MAGTF COC will use a variety of manual and automated systems to effect command and control of the separate elements of a MAGTF. Generally, some or all of the following systems will be available for use by a MAGTF COC:

- * *Marine Integrated Personnel System (MIPS)*
- * *AN/UYK-83 or AN/UYK-85 (FMF-EUCE)*
- * *Tactical Combat Operations (TCO) software*
- * *Marine Flexible Fire Support System (FIREFLEX)*
- * *Marine Integrated Logistics System (MILOGS)*
- * *Intelligence Analysis System (IAS) Workstation*
- * *AN/USQ-90 - Position Location Reporting System (PLRS)*
- * *AN/TSQ-129 - Position Location Reporting System - Master Station / Alternate Master Station (PLRS-MS)*
- * *RT-1343/TSQ-129 - Position Location Reporting System - User Unit (PLRS-UU)*
- * *NAVSTAR Global Positioning System (GPS) user equipment*
- * *AN/PSC-2A - Digital Communications Terminal (DCT)*

9. OPTIONAL SYSTEMS EMPLOYED:

(ARC Compilation)

MAGTF, JTF, Theater CINC and rapid response national and/or Special Operations Forces (SOF) elements employ various portable computer and communications systems that may be used in the MAGTF COC if required. The following optional systems may be used to assist MAGTF COC operations:

- * *IBM Compatible Portable Computer Systems*
- * *Portable SATCOM systems providing secure voice, teletype, and facsimile communications.*
- * *Tactical Video Transmission Systems (TVTS)*

10. REPORTS/PRODUCTS PROVIDED:

(ARC Compilation)

- * *MAGTF operational estimates.*
- * *MAGTF operation plans, orders, and annexes.*
- * *MAGTF situation reports.*
- * *MAGTF status reports.*
- * *MAGTF situation maps and overlays.*
- * *Combat information reports (as required).*
- * *Air defense alerts.*
- * *Weather data reports.*
- * *NBC events, attacks, and incidents reports.*

1. LONG TITLE: COMBAT SERVICE SUPPORT OPERATIONS CENTER

2. SHORT TITLE: CSSOC

3. REFERENCES:

A.	FMFM 3-30	COMMUNICATIONS
B.	FMFM 2	THE MARINE AIR-GROUND TASK FORCE
C.	FMFM 4	COMBAT SERVICE SUPPORT
D.	OH 4-1	COMBAT SERVICE SUPPORT OPERATIONS
E.	MCCDC	MAGTF INTEROPERABILITY REQUIREMENTS CONCEPTS (MIRC) (4 MAY 1990)

4. MISSION: (ARC Compilation)

To provide timely, reliable, and continuous combat service support to the MAGTF in support of the MAGTF commander's tactical mission and concept of operations and to control and coordinate the internal operations of the CSS Element (CSSE).

5. DESCRIPTION: (ARC Compilation)

The CSSOC is a grouping of people from the CSSE's operations and communications personnel assets that continuously monitors, records, and reports the status of CSS operations. It is the functional MAGTF CSS agency that implements CSS plans and orders developed by the MAGTF CE for general CSS support of the entire MAGTF. The CSSOC supervises the execution of CSS operations within clearly established decision-making boundaries, policies, and SOPs established by the CSSE Commander.

6. FUNCTIONS: (OH 4-1, pg 4-11)

- * Receiving and recording operational reports from subordinate units.
- * Maintaining current plots of the friendly and enemy situation and displaying the information in the CSSOC.
- * Preparing and submitting operational reports to higher headquarters.
- * Providing dedicated communications channels for control of CSS operations.
- * Transmitting orders and decisions.
- * Monitoring the progress of CSS operations and reporting significant events and incidents to the commander.
- * Advising interested staff sections of events or information of immediate concern to them.

* Serving as the principal point of contact for liaison personnel from senior, supported, or adjacent units.

* Prepares and implements the CSSE portion of the MAGTF organic intelligence collection plan.

7. ESTABLISHMENT:

(OH 4-L pg 4-9)

A. INITIATING AUTHORITY:

Commanding Officer, CSSE

B. CONTROLLING AUTHORITY:

Commanding Officer, CSSE

C. SUPERVISING AUTHORITY:

CSS Operations Officer

D. ORGANIZATIONAL STRUCTURE:

- * Watch Officers
- * Watch Chiefs
- * Communications Section
- * Admin/Clerical Section
- * Supply Coordinator
- * Maintenance Coordinator
- * Transportation Coordinator
- * Engineer Coordinator
- * Health Services Coordinator
- * Services Coordinator

(ARC)

* Intelligence Section (IAS Terminal)

E. MANNING:

(ARC Compilation)

The CSS commander tasks the subordinate elements of the CSSE to provide personnel to constitute a minimum of two 12 hour watch sections in order to maintain sustained 24 hour operations. The exact composition of the CSSOC is flexible and is governed by the explicit needs of the supported MAGTF.

F. LOCATION:

(OH 4-L pg 4-9)

- (1) AFLOAT: Not established (CSSOC personnel augment the TACLOG GP)
- (2) ASHORE: CSSE Command Post

G. COORDINATION:

(ARC Compilation)

(1) HIGHER:

- * *MAGTF COMMAND CENTER (CC) (if established)*
- * *JTF/THEATER CINC J-4*

(2) ADJACENT:

- * *MAGTF COC, CIC, TCC*
- * *ACE MWSG*

(3) LOWER:

- * *DEPLOYED CSSD (If established)*

H. COMMUNICATIONS CONNECTIVITY:

(ARC Compilation)

(1) HIGHER:

- * *Tactical GENSER Communications Center (TCC) for secure GENSER voice and teletype to all MAGTF, JTF, Theater, and National assets.*
- * *Landing Force GENSER wire and radio circuits.*

(2) ADJACENT:

- * *Landing Force GENSER wire and radio circuits.*

(3) LOWER:

- * *Landing Force GENSER wire and radio circuits.*

8. PRIMARY SYSTEMS EMPLOYED:

(ARC Compilation)

The CSSOC will have access to and be supported by an LAS workstation terminal. All other systems found in the CSSOC are strictly CSS related.

- * *Combat Service Support Information Network (CSSIN)*
- * *Standard Embarkation Management System (SEMS)*
- * *Computer-Aided Embarkation Management System (CAEMS)*
- * *Marine Integrated Personnel System (MIPS)*
- * *Marine Integrated Logistics System (MILOGS)*
- * *AN/UYK-83 or AN/UYK-85 (FMF-EUCE)*
- * *Tactical Combat Operations (TCO) software*

- * *Intelligence Analysis System (IAS) Workstation*

9. **OPTIONAL SYSTEMS EMPLOYED:**

(ARC Compilation)

The following optional systems may be used to support intelligence efforts within the CSSOC.

- * *IBM Compatible Portable Computer Systems*

10. **REPORTS/PRODUCTS PROVIDED:**

(ARC Compilation)

- * *Situation Reports*
- * *Contact Team Reports*
- * *Prisoner of War (POW) Reports*
- * *Engineer Reconnaissance Reports/map overlays*
- * *Medical Reports*

1. LONG TITLE: TACTICAL COMMUNICATION CENTER

2. SHORT TITLE: TCC

3. REFERENCES: A. CMC MARINE CORPS COMMAND AND
CONTROL MASTER PLAN (3 AUG 1987)
B. MCCDC MAGTF INTEROPERABILITY
REQUIREMENTS CONCEPTS (MIRC) (4
MAY 1990)

4. MISSION: (ARC Compilation)

To transmit, receive, process, and deliver, general service (GENSER) record copy message traffic for MAGTF and other assigned units during tactical operations ashore.

5. DESCRIPTION: (ARC Compilation)

The TCC is the designated space or facility that is responsible for providing record copy general service (GENSER) communications support to the MAGTF Command Element and/or other specified subordinate elements. TCC's are composed of the teletype communications and cryptographic terminal equipment and personnel that provide access to the Defense Communications System (DCS) when deployed ashore during tactical operations or exercises (when established).

6. FUNCTIONS/TASKS/DUTIES: (ARC Compilation)

- * *Transmit, receive, process, and store GENSER message traffic which is destined for or relayed through a specified command and control facility from senior, adjacent, and subordinate commands, agencies, or units.*
- * *Route and distribute GENSER messages internally to specified commands, units, or sections.*
- * *Maintain records, files, and logs and prepare GENSER communications reports as directed.*
- * *Coordinate installation and maintenance of all TCC equipment.*
- * *Check all outgoing GENSER traffic before transmission and review traffic after transmission to ensure message accuracy and check all incoming traffic prior to internal distribution as directed.*

7. ESTABLISHMENT: (ARC Compilation)

A. INITIATING AUTHORITY:

Supported MAGTF CE or Subordinate Element Commander

B. CONTROLLING AUTHORITY:

MAGTF or Subordinate Element G-6 or CEO

C. SUPERVISING AUTHORITY:

Respective Communications Bn or Communications Unit/Section Commanding Officer or Officer-In-Charge (OIC)

D. ORGANIZATIONAL STRUCTURE:

- * *TCC OIC*
- * *TCC NCOIC*
- * *TCC Watch Supervisors*
- * *TCC Communications watch personnel*

E. MANNING:

(ARC Compilation)

Manning of TCC's are the responsibility of each respective Communications Battalion or designated Communications Unit/Section assigned to provide tactical record copy GENSER communications support support to the MAGTF CE or subordinate elements. Communications personnel assignments ofr manning of TCC's are based on established Table of Organizations (T/O) and Marine Corps assignment policies. Personnel augmentation for deployed TCC's may come from other Communications Battalion's, or other designated Communications Unit's/Sections within the Marine Corps.

F. LOCATION:

(ARC Compilation)

(1) AFLOAT:

During afloat operations, TCC personnel augment the Ships (GENSER) Communications Center (SCC) facility to ensure GENSER record copy communications support for the Landing Force (MAGTF) is provided.

(2) ASHORE:

TCC's are normally collocated in the Command Post (CP) of the supported MAGTF CE or subordinate ACE or GCE. Within the CP area, the TCC will be placed in close proximity to the respective MAGTF, ACE, or GCE COC and CIC and must be within the confines of a secure area.

G. COORDINATION:

(ARC Compilation)

(1) HIGHER:

- TFCC/FP (when afloat)*
- JIC (when afloat)*
- JSCC (when afloat and if established)*
- OSCC (if established)*

MAGTF CC (if established)

MAGTF COC (if MAGTF CC is not established)

MAGTF CIC

SRIG/SRIG DET-CC (if established)

(2) ADJACENT:

Other OSCC's

LFOC (when afloat)

Other SCC's (when afloat)

S/EWCC

CSSOC

Other TCC's (when ashore)

SSES (when afloat)

SARC

(3) LOWER:

* *None*

H. COMMUNICATIONS CONNECTIVITY:

(ARC Compilation)

A. HIGHER:

- * *Ships intercomm, cctv, and dial telephone to elements/functional centers on same ship.*
- * *Ship's GENSER Communications Center (SCC) for communications terminal equipment (when afloat).*
- * *NAVCAMS or NAVCOMSTA shore installations / Automatic Digital Network (AUTODIN) switching centers*
- * *Designated Defense Communications Agency (DCA) facilities and other specified DOD communications facilities or stations for access to the Defense Communications System (DCS).*
- * *Shorebased communications path as directed by OSCC.*
- * *Established tactical secure and non-secure radio and wireline communications circuits (when ashore).*

B. ADJACENT:

- * *Ships intercom, cctv, and dial telephone to elements/functional centers on same ship.*
- * *Ships GENSER Communications Center (SCC) for communications terminal equipment (when afloat).*
- * *NAVCAMS or NAVCOMSTA shore installations / Automatic Digital Network (AUTODIN) switching centers*

- * *Designated Defense Communications Agency (DCA) facilities and other specified DOD communications facilities or stations for access to the Defense Communications System (DCS).*
- * *Shorebased communications path as directed by OSCC.*
- * *Established tactical secure and non-secure radio and wireline communications circuits (when ashore).*

C. LOWER:

- * *None*

8. PRIMARY SYSTEMS EMPLOYED:

(ARC Compilation)

When afloat, the equipment used by TCC personnel within the Ship's GENSER Communications Center (SCC) will depend on the type of ship and individual ship configuration. See SCC brief sheet for further details.

When ashore, the TCC will primarily use the following equipment:

- * *AN/MS-63A - Special Security Communications Central*
- * *AN/UCG-74C - Communications Teletype Terminal (bench-mounted)*
- * *KG-84C - Cryptographic device (bench-mounted)*

9. OPTIONAL SYSTEMS EMPLOYED:

(ARC Compilation)

MAGTF, JTF, Theater CINC and rapid response national and/or Special Operations Force (SOF) communications teams employ a variety of computers and communications systems that may be used as or within a TCC. The following systems may be used in these circumstances:

- * *AN/UYK-83 or AN/UYK-85 (FMF-EUCE) (as terminal devices)*
- * *IBM Compatible Portable Computer Systems (as terminal devices)*
- * *Commercial modems*
- * *Portable SATCOM systems providing secure voice, teletype, and facsimile communications.*

10. REPORTS/PRODUCTS PROVIDED:

(ARC Compilation)

- * *GENSER message traffic*
- * *Circuit activation/deactivation reports*
- * *Circuit status reports*
- * *Circuit outage reports*

1. LONG TITLE: AVIATION COMBAT ELEMENT COMBAT INTELLIGENCE CENTER
2. SHORT TITLE: ACE CIC
3. REFERENCES:
 - A. FMFM 3-21 MAGTF INTELLIGENCE OPERATIONS
 - B. OH 5 THE MARINE AVIATION COMBAT ELEMENT
 - C. FMFRP 3-28 TRI-MEF STANDING OPERATING PROCEDURES FOR FIELD INTELLIGENCE OPERATIONS
 - D. OH 5-8 CONTROL OF AIRCRAFT AND MISSILES
 - E. MCCDC MAGTF INTEROPERABILITY REQUIREMENTS CONCEPTS (MIRC) (4 MAY 1990)

4. MISSION:

(ARC Compilation)

A. Primary:

To provide the ACE commander, staff, assigned and attached elements with information and intelligence required for planning, and execution of assigned ACE missions.

B. Secondary:

To contribute to the overall intelligence effort and satisfaction of intelligence requirements of other MAGTF elements and specified higher, adjacent, and supporting commands during joint or combined operations.

5. DESCRIPTION:

(ARC Compilation)

The ACE CIC is the intelligence, reconnaissance, surveillance and electronic warfare control and coordination agency of the ACE. It oversees the information, intelligence, and electronic warfare support activities of the ACE. The ACE CIC is usually collocated or imbedded in the ACE Tactical Air Command Center (TACC) and is the ACE's focal point for defining information, intelligence, counterintelligence, and electronic warfare requirements and forwarding requests for information, intelligence, and electronic warfare support for other MAGTF, national, theater, and joint or combined assets. The ACE CIC performs the overall management functions of the internal ACE information, intelligence, reconnaissance, surveillance and electronic warfare efforts. It processes, integrates, evaluates, interprets, tailors and disseminates information and intelligence obtained by MAGTF elements, external agencies, and organic ACE assets on terrain, weather, and enemy forces. The ACE CIC primarily

supports the ACE Commander and his staff in the planning and execution of air combat operations and will normally concentrate its efforts on the enemy forces and activities that affect current and projected ACE operations up to 48 hours in the future and within the assigned ACE area of operations.

6. FUNCTIONS:

(ARC Compilation)

- * Directs, coordinates, and supervises organic ACE intelligence, surveillance, reconnaissance, and electronic warfare activities.*
- * Prepares ACE intelligence and counterintelligence estimates.*
- * Prepares and coordinates intelligence input to ACE plans, orders, annexes, and estimates.*
- * Directs, coordinates, and supervises the development and forwarding of ACE Essential Elements of Information / Other Intelligence Requirements (EEI/OIR) to the MAGTF CIC.*
- * Prepares and implements the ACE portion of the MAGTF organic intelligence collection plan.*
- * Directs, coordinates, and supervises the dissemination of intelligence to the ACE Commander, ACE staff and to senior, adjacent, subordinate, and other commands as directed.*
- * Establishes and maintains intelligence liaison with appropriate higher, adjacent, and supporting commands and intelligence agencies as directed.*
- * Directs, coordinates, and supervises the activities of assigned and attached intelligence specialist teams as necessary.*
- * Directs, coordinates, and supervises the production of intelligence specifically tailored for the ACE and assigned or attached elements.*
- * Directs, coordinates, and determines ACE requirements for maps, charts, graphic aids, and imagery products and supervises appropriate distribution.*
- * Establishes and maintains a Sensitive Compartmented Information Facility (SCIF) for the security and dissemination of sensitive intelligence to the ACE as directed.*
- * Assists in the planning and coordination required for airborne signals intelligence and electronic warfare operations and activities as directed.*
- * Assists in the planning and coordination required for counterintelligence operations and activities within the ACE assigned facilities as directed.*
- * Directs, coordinates, and supervises the production and dissemination of ACE target intelligence including specific information necessary to determine ordnance requirements and recommendations on target priorities.*
- * Prepares and conducts pre-mission intelligence briefings for pilots/air crew personnel and conducts pilot/air crew intelligence debriefings upon completion of mission and disseminates reports as directed.*

- * *Coordinates intelligence support for ACE survival, evasion, resistance, and escape (SERE) requirements as directed.*
- * *Assists in poststrike analysis, bomb damage assessments (BDA) as directed.*
- * *Assists in the planning and coordination required for the Force Imagery Interpretation Unit (FIU) functions and activities as required.*
- * *Assists in the planning and coordination required for aerial delivery of Unattended Ground Sensors as directed.*
- * *Assists in the planning and coordination required for Remotely Piloted Vehicle operations and activities as directed.*
- * *Assists in the planning and coordination required for aerial delivery and execution of Ground Reconnaissance operations and activities as directed.*
- * *Arranges for and coordinates dissemination of weather data for the ACE.*
- * *Directs, coordinates, and supervises the preparation of the ACE periodic intelligence summaries and installation/facility studies as required.*
- * *Maintains enemy situation maps and order of battle maps of the ACE area of operations.*
- * *Maintains reconnaissance, observation and surveillance plot, and status boards of ACE area of operations as necessary.*

7. ESTABLISHMENT:

(ABC Compilation)

A. INITIATING AUTHORITY:

ACE Commander

B. CONTROLLING AUTHORITY:

ACE Commander

C. SUPERVISING AUTHORITY:

ACE G/S-2

D. ORGANIZATIONAL STRUCTURE:

(ABC Compilation)

- * *G/S-2*
- * *Assistant G/S-2*
- * *CIC Watch Officers*
- * *CIC Watch Chiefs/Supervisors*
- * *Air Intelligence Operations Branch*
 - * *Air Order of Battle Section*
 - * *Damage Assessment Section*

- * *Target Intelligence Section*
- * *Intelligence Liaison Section*
- * *Special Security Section*
- * *Other assigned or attached Intelligence Specialists Sections/Teams*
(as required)

E. MANNING:

(ARC Compilation)

Manning of the ACE CIC is a combined effort using the personnel assets of the ACE G/S-2 Section with selected personnel from subordinate elements of the ACE and other possible intelligence augmentees or liaison personnel from other MAGTF, higher, adjacent, or supporting commands as required. The ACE CIC must be sufficiently staffed to maintain sustained 24 hour operations.

F. LOCATION:

(ARC Compilation)

(1) AFLOAT:

During amphibious operations, the ACE CIC will be located on the same ship and in close proximity to the ATF's Tactical Air Control Center (Afloat) or wherever the LF's Tactical Air Command Center is forward deployed and operational. Designated ACE CIC personnel may augment the MAGTF Command Element Intelligence Section in the Amphibious Task Force (ATF) JIC to ensure a ACE air intelligence, surveillance, and electronic warfare requirements are incorporated into the overall ATF and LF collection plan.

(2) ASHORE:

(ARC Compilation)

The ACE CIC will normally be imbedded in or in close proximity to the TACC at the ACE's expeditionary or established airfield.

G. COORDINATION:

(ARC Compilation)

(1) HIGHER:

<i>TFCC/FP (afloat)</i>	<i>SACC (afloat)</i>	<i>SCC</i>
<i>JIC (afloat)</i>	<i>SASS</i>	
<i>MAGTF CIC</i>	<i>TACC (A)</i>	
<i>MAGTF CC (if established)</i>	<i>MAGTF COC</i>	

(2) ADJACENT:

<i>GCE COC</i>	<i>FSCC</i>	<i>OSCC</i>
<i>ACE CFC</i>	<i>DASC</i>	<i>TCC</i>
<i>SRIG/SRIG DET-CC (if established)</i>		

	<i>ITOC</i>	<i>SSCC</i>
<i>MAFC</i>	<i>CDEC</i>	
<i>SARC</i>	<i>CMEC</i>	
<i>OCAC</i>	<i>CSSOC</i>	
<i>SSES (afloat)</i>		

- * *Other Joint/Combined intelligence units/assets operating adjacent to the ACE area of operations*

(3) LOWER:

- * *Organic ACE surveillance, aerial reconnaissance, intelligence and electronic warfare assets of the ACE.*

H. COMMUNICATIONS CONNECTIVITY:

(ARC Compilation)

(1) HIGHER:

- * *Ships intercom, cctv, and dial telephone to elements on same ship (when afloat).*
- * *Ships GENSER Communication Center (SCC) for secure worldwide GENSER voice and teletype communications (when afloat).*
- * *Ships Signals Exploitation Space (SSES) for secure worldwide voice and teletype special intelligence communications (SPINTCOMM) (when afloat).*
- * *Established tactical secure and non-secure wireline and telephone systems (ashore).*
- * *Established Tactical GENSER Communications Center (TCC) for secure worldwide GENSER teletype communications (ashore).*
- * *Established tactical Special Security Communications Center (SSCC) for worldwide special intelligence communications (SPINTCOMM) (ashore).*
- * *Established LF secure and non-secure voice radio communications circuits (ashore).*

(2) ADJACENT:

- * *Ships intercom, cctv, and dial telephone to elements on same ship (when afloat).*

- * *Ships GENSER Communications Center (SCC) for secure GENSER voice and teletype communications to other ATF ships (when afloat).*
- * *Established Tactical GENSER Communications Center (TCC) for secure GENSER teletype communications (when ashore).*
- * *Established tactical Special Security Communications Center (SSCC) for secure special intelligence communications (SPINTCOMM) (when ashore).*
- * *Tactical MAGTF secure and non-secure wireline, telephone, and radio communications networks (when ashore).*

(3) LOWER:

- * *Ships intercom, cctv, and dial telephone to elements on same ship (when afloat).*
- * *Ships GENSER Communications Center (SCC) for secure GENSER voice and teletype communications to other ATF ships (when afloat).*
- * *Established tactical Special Security Communications Center (SSCC) for secure special intelligence communications (SPINTCOMM) (when ashore).*
- * *ACE secure and non-secure wireline, telephone, and radio communications networks (ashore).*

8. PRIMARY SYSTEMS EMPLOYED:

(ARC Computer)

The systems employed by the ACE CIC will be a combination of manual and automated systems. See JIC brief sheet for afloat systems. Some or all of the following systems will be used by the ACE CIC or will provide information to the ACE CIC during subsequent operations ashore:

- * *Intelligence Analysis System (IAS) Suite*
- * *AN/UYK-83 or AN/UYK-85 (FMF-EUCE)*
- * *Tactical Combat Operations (TCO) software*
- * *AN/USQ-90 - Position Location Reporting System (PLRS)*
 - * *RT-1343/TSQ-129 - Position Location Reporting System - User Unit (PLRS-UU)*
- * *NAVSTAR Global Positioning System (GPS) user equipment*
- * *AN/TSQ-90(V) - Tactical Electronic Reconnaissance Processing and Evaluation System (TERPES)*
- * *Tactical EA-6B Mission Support System (TEAMS)*

- * *Tactical Aircraft Mission Planning System (TAMPS)*
- * *AN/TYQ-23(V)1 - Tactical Air Operations Module (TAOM)*
- * *AN/TYQ-1 - Tactical Air Command Central*
- * *AN/TYQ-2 - Tactical Air Operations Central*
- * *Advanced Tactical Air Command Central (ATACC)*
- * *Advanced Marine Airborne Signals Intelligence System (AMASS)*
- * *Joint Tactical Airborne Reconnaissance System (JTARS)*
- * *Electronic Intelligence (ELINT) Support System (ESS) (Air)*
- * *Airborne Mine Detection and Surveillance System (AMDAS)*
- * *AN/PSC-2A - Digital Communications Terminal (DCT)*

9. **OPTIONAL SYSTEMS EMPLOYED:**

(ARC Compilation)

Other MAGTF intelligence, reconnaissance, surveillance, and electronic warfare assets and rapid response national and/or Special Operations Force (SOF) assets employ a variety of systems that may be utilized in the ACE CIC. The following systems may be used to augment ACE CIC operations:

- * *IBM Compatible Portable Computer Systems*
- * *Various Secondary Imagery Dissemination Systems (SIDS)*
- * *Joint Services Imagery Processing System (JSIPS)*
- * *DIA National Military Intelligence Support Team (NMIST) Systems*
- * *Joint Intelligence Liaison Element System (JILES)*
- * *NSA Mobile Cryptologic Support Facility (MCSF) or SATCOM Tributary system.*

10. **REPORTS/PRODUCTS PROVIDED:**

(ARC Compilation)

- * *ACE Intelligence estimates*
- * *ACE Intelligence Annexes/Appendices*
- * *ACE Visual Aerial Reconnaissance and Surveillance Plan*
- * *ACE Aircrew Mission Briefings*
- * *ACE Aircrew Mission Debriefing Reports*
- * *ACE Situation Reports (SITREPS)*
- * *ACE Periodic Intelligence Reports/Summaries*
- * *ACE Joint Tactical Air Reconnaissance/Surveillance Inflight Reports (FLIGHTREP)*
- * *ACE Mission Reports (MISREP)*
- * *ACE Joint Tactical ELINT Reports (JTER)*
- * *ACE Joint Tactical ELINT Inflight Reports (JTEIR)*
- * *ACE Combat Air Patrol Reports*

- * *ACE Aerial Observer (AO) Reports*
- * *ACE RADAR Surveillance and Tracking Reports*
- * *ACE Intelligence Indications and Warning (I&W) reports*
- * *ACE Intelligence Briefings*

1. LONG TITLE: TACTICAL AIR COMMAND CENTER
2. SHORT TITLE: TACC
3. REFERENCES:
- | | | |
|----|----------|----------------------------------|
| A. | JCS PUB | JOINT DOCTRINE OF LANDING FORCE |
| | 3-02.1 | OPERATIONS |
| B. | FMFM 5-1 | MARINE AVIATION |
| C. | OH 5 | THE MARINE AVIATION COMBAT |
| | | ELEMENT |
| D. | OH 5-8 | CONTROL OF AIRCRAFT AND MISSILES |
| E. | CMC | MARINE CORPS COMMAND AND |
| | | CONTROL MASTER PLAN (3 AUG 87) |
| F. | MCCDC | MAGTF INTEROPERABILITY |
| | | REQUIREMENTS CONCEPTS (MIRC) (4 |
| | | MAY 1990) |

4. MISSION: **(ARC Compilation)**
To direct and control all air operations and surface-to-air missile operations in the Landing Force objective area.

5. DESCRIPTION: **(ARC Compilation)**
The TACC is the principle air control agency of the LF ashore. During amphibious operations, the TACC operates as a tactical air direction center (TADC) under the overall supervision of the task forces Tactical Air Control Center (afloat) (TACC (A)) and accomplishes such air control functions as may be assigned until authority for control of air operations is passed to the CLF ashore. The TACC also provides the Marine tactical air commander (TAC) the means to coordinate organic aviation with that of other services. The TACC exercises its command and control of the assigned area of responsibility through other agencies organic to the landing force (MAGTF). The TACC fulfills its responsibility for air direction and command of tactical air operations by maintaining current intelligence information regarding the air and ground situation.

6. FUNCTIONS: **(FMFM 5-1, pg. 9)**
- * Maintain complete information on the air situation, including the ground combat information essential to effective air support.
 - * Manage all aircraft in the objective area to ensure balanced use of assets.
 - * Oversee the operations of subordinate MACCS agencies and preserve economy and

unity of effort in the execution of the TAC's air plans.

- * Serve as the operational point of contact between the MACCS and external air control systems.
- * Provide appropriate air defense alert conditions to all major elements of the MAGTF.
- * Provide emission control (EMCON) conditions in the objective area.
- * Prescribe succession of command and control responsibilities within the MACCS and compensate for any serious degradation within a component agency.
- * Coordinating the combat air patrols employed by the TAOC's.
- * Coordinating the use of aircraft by the DASC.
- * Diverting aircraft from scheduled missions to meet other priorities.
- * Briefing pilots of diverted aircraft, as required.
- * Establishing alert conditions for ground alert aircraft.
- * Establishing procedures for employment of air defense weapons in overlapping sectors of responsibility.
- * Providing subordinate control agencies with appropriate flight schedules, identification signals, aircraft call signs, alert conditions, and aircraft availability.
- * Maintaining current status displays of all friendly air operations, detected threats, and air defense weapons.
- * Providing the point for the dissemination of tactical data information between air control agencies, both internal and external to the MACCS.

7. **ESTABLISHMENT:**

(ARC Compilation)

A. **INITIATING AUTHORITY:**

Commander Landing Force (CLF)

B. **CONTROLLING AUTHORITY:**

Air Combat Element (ACE) Commander

C. **SUPERVISING AUTHORITY:**

(OH 5-8, pg 2-1)

Tactical Air Commander

D. **ORGANIZATIONAL STRUCTURE:**

(OH 5-3)

- * Tactical Air Commander
- * Plans and Operations Section
 - * G/S-3 Watch Officer
 - * G/S-3 Chief

- * Air Boss
- * Fixed-Wing Fragger
- * Rotary-Wing Fragger
- * Intelligence Watch Officer
- * Weapons Employment Officer
- * C3CM Watch Officer
- * Air Control Officer
- * G/S-2 Watch Section
- * G/S-4
- * Operations Section
 - * Senior Air Coordinator
 - * Command Console Operator
 - * Track Data Coordinator
 - * Crew Chief
 - * Plotters
 - * Air Defense Coordinator
 - * Air Defense Recorder
 - * Tactical Air Watch Officer
 - * Assault Support Watch Officer
 - * Air Support Coordinator
 - * Air Support Recorder
 - * Interface Coordination Officer
 - * Maintenance Coordinator

E. MANNING:

(OH 3-3)

- * The Planning Section is manned by the ACE Staff.
- * The Operations Section is manned by H&HS, MACG.
- * Communications assets are provided by MWCS.
- * The G/S-2 Section is manned by intelligence personnel from the ACE CIC

F. LOCATION:

(ARC 3-3)

- (1) AFLOAT:

The landing force TACC is not established afloat. Control of air space during afloat operations and the ship-to-shore movement is conducted by the task force Tactical Air Control Center (afloat) (TACC (A)).

(2) ASHORE:

The TACC is normally located in the ACE Command Post (CP) area ashore.

G. COORDINATION:

(ARC Compilation)

(1) HIGHER:

*Designated Theater/Joint Force Air Component Commander
TFCC/FP
MAGTF CC/COC
TACC (A) (during amphibious operations)*

(2) ADJACENT:

<i>JIC</i>	<i>LFOC</i>	<i>LFSP</i>	<i>SCC</i>
<i>SARC</i>	<i>SACC</i>	<i>TACLOG GP</i>	
<i>SSES</i>	<i>HDC</i>		
<i>CIC</i>			
<i>TIC</i>			

(3) LOWER:

*TADC
DASC
TAOC*

** All aircraft and antiaircraft weapons and air warning units/activities within the designated area of operations.*

H. COMMUNICATIONS CONNECTIVITY:

(ARC Compilation)

(1) HIGHER:

- * Established tactical secure and non-secure wireline and telephone systems.*
- * Established Tactical GENSER Communications Center (TCC) for secure worldwide GENSER teletype communications.*
- * Established tactical Special Security Communications Center (SSCC) for worldwide special intelligence communications (SPINTCOMM).*
- * Established LF secure and non-secure voice radio communications circuits.*

(2) ADJACENT:

- * *Established Tactical GENSER Communications Center (TCC) for secure GENSER teletype communications.*
- * *Established tactical Special Security Communications Center (SSCC) for secure special intelligence communications (SPINTCOMM).*
- * *Tactical MAGTF secure and non-secure wireline, telephone, and radio communications networks.*

(3) LOWER:

- * *Established tactical Special Security Communications Center (SSCC) for secure special intelligence communications (SPINTCOMM).*
- * *ACE secure and non-secure wireline, telephone, and radio communications networks.*

8. PRIMARY SYSTEMS EMPLOYED:

(ARC Compilation)

The TACC will incorporate a variety of systems to perform the primary and supporting functions of the TACC. Some or all of the following systems may be used within the TACC:

- * *AN/TYQ-1 - Tactical Air Command Central*
- * *Advanced Tactical Air Command Central (ATACC)*
- * *AN/UYK-83 or AN/UYK-85 (FMF-EUCE)*
- * *Tactical Combat Operations (TCO) software*
- * *Marine Air Traffic Control and Landing System (MATCALS)*
- * *Tactical Aircraft Mission Planning System (TAMPS)*
- * *Joint Tactical Information Distribution System (JTIDS) terminal*
- * *Intelligence Analysis System (IAS) Workstation*

9. OPTIONAL SYSTEMS EMPLOYED:

(ARC Compilation)

Other MAGTF, JTF, Theater CINC and rapid response national and/or Special Operations Force (SOF) aviation liaison teams employ various portable computer and communications systems that may be utilized in a TACC during joint/contingency operations. The following optional systems may be employed:

- * *IBM Compatible Portable Computer Systems.*
- * *Portable SATCOM systems providing secure voice, teletype, and facsimile communications.*

- * *Tactical Video Transmission Systems (TVTS).*
- * *Various Secondary Imagery Dissemination Systems (SIDS) (portable and desktop)*

10. **REPORTS/PRODUCTS PROVIDED:**

(ARC Compilation)

- * *ACE Plans, Orders, Annexes, Estimates*
- * *Inflight Reports*
- * *ACE Situation Reports*
- * *ACE Mission Reports*
- * *Weather Warning/Forecasting Reports*
- * *Tactical Air Requests*
- * *ACE Engagement Reports*
- * *ACE Aerial Observer (AO) Reports*
- * *Helo Requests*
- * *Air Defense Command/Warning/Alert Conditions Reports*
- * *Daily Air Plan/Status/Modification Reports*
- * *Enemy and friendly air situation and surveillance reports*
- * *Strike and Close Air Support mission briefings*
- * *Navigational assistance to all friendly aircraft*
- * *General route assignments for aircraft approach to and retirement from the designated area of responsibility.*
- * *Air mission results, target intelligence, weapon and unit status, and engagement results and/or reports.*
- * *NBC events/incident reports*

1. LONG TITLE: TACTICAL AIR DIRECTION CENTER

2. SHORT TITLE: TADC

3. REFERENCES:

- | | | |
|----|----------|----------------------------------|
| A. | JCS PUB | JOINT DOCTRINE OF LANDING FORCE |
| | 3-02.1 | OPERATIONS |
| B. | FMFM 5-1 | MARINE AVIATION |
| C. | OH 5 | THE MARINE AVIATION COMBAT |
| | | ELEMENT |
| D. | OH 5-8 | CONTROL OF AIRCRAFT AND MISSILES |
| E. | CMC | MARINE CORPS COMMAND AND |
| | | CONTROL MASTER PLAN (3 AUG 87) |
| F. | MCCDC | MAGTF INTEROPERABILITY |
| | | REQUIREMENTS CONCEPTS (MIRC) (4 |
| | | MAY 1990) |

4. MISSION:

(ARC Compilation)

To control air operations and air warning functions of specified areas of responsibility as directed by the ATF TACC (A) or LF TACC.

5. DESCRIPTION:

(FMFM 5-1, pg 50)

The TADC is an air operations facility subordinate to the ATF TACC (A) or LF TACC. The TADC coordinates and directs all air operations in a specified portion of the objective area. The TADC is normally identical in organization, facilities and capabilities to a TACC. The essential difference between the TACC and the TADC is the amount of airspace for which each is responsible and the scope of their assigned tasks.

6. FUNCTIONS:

(FMFM 5-1, pg 50)

- * Maintain complete information on the air situation, including the ground combat information essential to effective air support.
- * Manage all aircraft in the objective area to ensure balanced use of assets.
- * Oversee the operations of subordinate MACCS agencies and preserve economy and unity of effort in the execution of the TAC's air plans.
- * Serve as the operational point of contact between the MACCS and external air control systems.

- * Provide appropriate air defense alert conditions to all major elements of the MAGTF.
- * Provide emission control (EMCON) conditions in the objective area.
- * Prescribe succession of command and control responsibilities within the MACCS and compensate for any serious degradation within a component agency.
- * Coordinating the combat air patrols employed by the TAOC's.
- * Coordinating the use of aircraft by the DASC.
- * Diverting aircraft from scheduled missions to meet other priorities.
- * Briefing pilots of diverted aircraft, as required.
- * Establishing alert conditions for ground alert aircraft.
- * Establishing procedures for employment of air defense weapons in overlapping sectors of responsibility.
- * Providing subordinate control agencies with appropriate flight schedules, identification signals, aircraft call signs, alert conditions, and aircraft availability.
- * Maintaining current status displays of all friendly air operations, detected threats, and air defense weapons.
- * Providing the point for the dissemination of tactical data information between air control agencies, both internal and external to the MACCS.

7. **ESTABLISHMENT:**

(ARC Compilation)

A. INITIATING AUTHORITY:

Commander Landing Force (CLF)

B. CONTROLLING AUTHORITY:

Air Combat Element (ACE) Commander

C. SUPERVISING AUTHORITY:

(OH 5-3, PG 7-1)

Tactical Air Commander (TAC)

D. ORGANIZATIONAL STRUCTURE:

(OH 5-3, PG 1-3)

- * Tactical Air Commander
- * Plans and Operations Section
 - * G/S-3 Watch Officer
 - * G/S-3 Chief
 - * Air Boss
 - * Fixed-Wing Fragger
 - * Rotary-Wing Fragger

- * Intelligence Watch Officer
- * Weapons Employment Officer
- * C3CM Watch Officer
- * Air Control Officer
- * G/S-2 Watch Section
- * G/S-4
- * Operations Section
 - * Senior Air Coordinator
 - * Command Console Operator
 - * Track Data Coordinator
 - * Crew Chief
 - * Plotters
 - * Air Defense Coordinator
 - * Air Defense Recorder
 - * Tactical Air Watch Officer
 - * Assault Support Watch Officer
 - * Air Support Coordinator
 - * Air Support Recorder
 - * Interface Coordination Officer
 - * Maintenance Coordinator

E. MANNING:

(OH S-3)

- * The Planning Section is manned by the ACE Staff.
- * The Operations Section is manned by H&HS, MACG.
- * Communications assets are provided by MWCS.
- * The G/S-2 Section is manned by intelligence personnel from the ACE CIC

F. LOCATION:

(ARC Completion)

(1) AFLOAT:

The TADC is not normally established afloat.

(2) ASHORE:

Multiple TADC's established ashore will be located where they can direct and control the specified area of responsibility. A single TADC will normally be located at/near the ACE Command Post (CP) area ashore.

G. COORDINATION:

(ARC Completion)

(1) HIGHER:

Designated Theater/Joint Force Air Component Commander
TFCC/FP
MAGTF CC/COC
TACC (A) (during amphibious operations)
TACC (during subsequent operations ashore)

(2) ADJACENT:

<i>JIC</i>	<i>LFOC</i>	<i>LFSP</i>	<i>SCC</i>
<i>SARC</i>	<i>SACC</i>	<i>TACLOG GP</i>	
<i>SSES</i>	<i>HDC</i>		
<i>CIC</i>			
<i>TIC</i>			

(3) LOWER:

DASC
TAOC

- * *All aircraft and antiaircraft weapons and air warning units/activities within the designated area of operations.*

H. COMMUNICATIONS CONNECTIVITY:

(ARC Completion)

(1) HIGHER:

- * *Established tactical secure and non-secure wireline and telephone systems.*
- * *Established Tactical GENSER Communications Center (TCC) for secure worldwide GENSER teletype communications.*
- * *Established tactical Special Security Communications Center (SSCC) for worldwide special intelligence communications (SPINTCOMM).*
- * *Established LF secure and non-secure voice radio communications circuits.*

(2) ADJACENT:

- * *Established Tactical GENSER Communications Center (TCC) for secure GENSER teletype communications.*

- * *Established tactical Special Security Communications Center (SSCC) for secure special intelligence communications (SPINTCOMM).*
- * *Tactical MAGTF secure and non-secure wireline, telephone, and radio communications networks.*

(3) LOWER:

- * *Established tactical Special Security Communications Center (SSCC) for secure special intelligence communications (SPINTCOMM).*
- * *ACE secure and non-secure wireline, telephone, and radio communications networks.*

8. PRIMARY SYSTEMS EMPLOYED:

(NICK)

The TADC will incorporate a variety of systems to perform the primary and supporting functions of the TADC. Some or all of the following systems may be used within the TADC:

- * *AN/TYQ-1 - Tactical Air Command Central*
- * *Advanced Tactical Air Command Central (ATACC)*
- * *AN/UYK-83 or AN/UYK-85 (FMF-EUCE)*
- * *Tactical Combat Operations (TCO) software*
- * *Joint Tactical Information Distribution System (JTIDS) terminal*
- * *Intelligence Analysis System (IAS) Workstation*

9. OPTIONAL SYSTEMS EMPLOYED:

(ARC Completion)

Other MAGTF, JTF, Theater CINC and rapid response national and/or Special Operations Force (SOF) aviation liaison teams employ various portable computer and communications systems that may be utilized in a TADC during joint/contingency operations. The following optional systems may be employed:

- * *IBM Compatible Portable Computer Systems.*
- * *Portable SATCOM systems providing secure voice, teletype, and facsimile communications.*
- * *Tactical Video Transmission Systems (TVTS).*
- * *Various Secondary Imagery Dissemination Systems (SIDS) (portable and desktop)*

10. REPORTS/PRODUCTS PROVIDED:

(ARC Completion)

- * *ACE Plans, Orders, Annexes, Estimates for specified TADC area*
- * *Inflight Reports for specified TADC area*
- * *TADC Situation Reports*

- * *TADC Weather Warning/Forecasting Reports*
- * *Engagement Reports*
- * *Aerial Observer (AO) Reports*
- * *Air Defense Command/Warning/Alert Conditions Reports for specified TADC area*
- * *Daily TADC Air Plan/Status/Modification Reports*
- * *Enemy and friendly air situation and surveillance reports for specified TADC area*
- * *Strike and Close Air Support mission briefings for specified TADC area*
- * *Navigational assistance to all friendly aircraft*
- * *General route assignments for aircraft approach to and retirement from the designated area of responsibility.*
- * *Air mission results, target intelligence, weapon and unit status, and engagement results and/or reports for specified TADC area.*
- * *NBC events/incident reports for specified TADC area.*

1. LONG TITLE: TACTICAL AIR OPERATIONS CENTER
2. SHORT TITLE: TAOC
3. REFERENCES:
- | | | |
|----|----------|----------------------------------|
| A. | JCS PUB | JOINT DOCTRINE OF LANDING FORCE |
| | 3-02.1 | OPERATIONS |
| B. | FMFM 5-1 | MARINE AVIATION |
| C. | OH 5 | THE MARINE AVIATION COMBAT |
| | | ELEMENT |
| D. | OH 5-8 | CONTROL OF AIRCRAFT AND MISSILES |
| E. | CMC | MARINE CORPS COMMAND AND |
| | | CONTROL MASTER PLAN (3 AUG 87) |
| F. | MCCDC | MAGTF INTEROPERABILITY |
| | | REQUIREMENTS CONCEPTS (MIRC) (4 |
| | | MAY 1990) |

4. MISSION: (ARC Compilation)
- To control, coordinate, and direct all air defense operations in an assigned sector of responsibility.*

5. DESCRIPTION: (FMFM 5-1, pg 50)
- The TAOC is the control agency subordinate to the TACC or specified TADC designed to control an air defense sector, enroute air traffic, and air defense operations, including assigned manned interceptors and surface-to-air missiles. The TAOC is placed under the control of a TACC/TADC ashore or afloat, depending upon the specific phase of a particular operation. The TAOC has surveillance radar capabilities, and it is the primary source of radar control for all aircraft in its sector of responsibility. It detects, acquires, and tracks targets in its assigned area and provides an up-to-date display of the aviation activity, including the employment and weapons status of interceptor aircraft and SAM batteries.

6. FUNCTIONS: (OH 5-8, pg 1-2)
- * Recommends employment of assigned weapons, surveillance means, and air defense sectors and subsectors of assigned responsibility of itself and component elements.
 - * Deploys sensors and communications systems to provide air surveillance.
 - * Detects, identifies, and classifies all aircraft within the sector of responsibility.
 - * Displays and disseminates appropriate air/ground information to designated adjacent, higher, and subordinate agencies.

- * Selects and assigns appropriate weapons to engage and destroy the enemy air threat.
- * Directs the operations of subordinate air defense elements.
- * Functions as an alternative TACC when directed for limited/designated periods of time.
- * Interfaces with adjacent and higher air defense agencies.
- * Manages air defense resources.

7. ESTABLISHMENT:

(OH 5-3, pg 3-5)

A. INITIATING AUTHORITY:

Air Combat Element (ACE) Commander

B. CONTROLLING AUTHORITY:

Sector Antiair Warfare Coordinator (SAAWC)

C. SUPERVISING AUTHORITY:

Senior Air Director

D. ORGANIZATIONAL STRUCTURE:

- * Senior Air Director
- * Surveillance Identification Director
- * Senior Weapons Director
- * Senior Traffic Director
- * Maintenance Coordinator
- * Crew Chief

E. MANNING:

(ARC Completion)

The TAOC is manned by personnel from the Marine Air Control Squadron (MACS) and the Marine Wing Communications Squadron (MWCS).

F. LOCATION:

(ARC Completion)

(1) AFLOAT:

The TAOC is not normally established afloat.

(2) ASHORE:

TAOC's established ashore will be located where they can direct and control the assigned sector of responsibility. A single TAOC will normally be located at/near the ACE Command Post (CP) area ashore.

G. COORDINATION:

(ARC Compilation)

(1) HIGHER:

Designated Theater/Joint Force Air Component Commander
TFCC/FP
MAGTF CC/COC
TACC (A) (during amphibious operations)
TACC (during subsequent operations ashore)
TADC

(2) ADJACENT:

JIC LFOC LFSP SCC
SARC SACC TACLOG GP
SSES HDC
CIC
TIC
Other TAOC's

(3) LOWER:

DASC

- * *All aircraft and antiaircraft weapons and air warning units/activities within the designated area of operations.*

H. COMMUNICATIONS CONNECTIVITY:

(ARC Compilation)

(1) HIGHER:

- * *Established tactical secure and non-secure wireline and telephone systems.*
- * *Established Tactical GENSER Communications Center (TCC) for secure worldwide GENSER teletype communications.*
- * *Established LF secure and non-secure voice radio communications circuits.*

(2) ADJACENT:

- * *Established Tactical GENSER Communications Center (TCC) for secure GENSER teletype communications.*
- * *Tactical MAGTF secure and non-secure wireline, telephone, and radio communications networks.*

(3) LOWER:

- * *Established tactical Special Security Communications Center (SSCC) for secure special intelligence communications (SPINTCOMM).*
- * *ACE secure and non-secure wireline, telephone, and radio communications networks.*

8. PRIMARY SYSTEMS EMPLOYED:

(MIRC)

The TAOC will incorporate a variety of systems to perform required primary and supporting functions. Some or all of the following systems may be used within the TAOC:

- * *AN/TYQ-2 - Tactical Air Operations Central*
- * *AN/TYQ-3(A) - Tactical Data Communications Central*
- * *AN/TYQ-23(V)1 - Tactical Air Operations Module (TAOM)*
- * *AN/UYK-83 or AN/UYK-85 (FMF-EUCE)*
- * *Tactical Combat Operations (TCO) software*
- * *AN/TPS-32 - Radar Set*
- * *AN/TPS-59 - Radar Set*
- * *AN/TPS-63A - Radar Set*
- * *AN/TSW-13 - Battery Control Central*
- * *AN/MSW-18 - Platoon Command Post (PCP)*

9. OPTIONAL SYSTEMS EMPLOYED:

(ARC Compilation)

Other MAGTF, JTF, Theater CINC and rapid response national and/or Special Operations Force (SOF) aviation liaison teams employ various portable computer and communications systems that may be utilized in a TAOC during joint/contingency operations. The following optional systems may be employed:

- * *IBM Compatible Portable Computer Systems.*
- * *Portable SATCOM systems providing secure voice, teletype, and facsimile communications.*

10. REPORTS/PRODUCTS PROVIDED:

(ARC Compilation)

- * *Air defense alert conditions and status reports.*
- * *Air status information reports for assigned sectors.*
- * *TAOC Situation Reports*
- * *Engagement Reports*
- * *Surveillance Reports*
- * *Air Defense Command/Warning/Alert Conditions Reports for specified TADC area*

- * *Air defense mission results, target intelligence, weapon and unit status, and engagement results and/or reports for specified TAOC area.*
- * *NBC events/incident reports for specified TAOC area.*

1. LONG TITLE: DIRECT AIR SUPPORT CENTER
2. SHORT TITLE: DASC
3. REFERENCES:
 - A. JCS PUB 3-02.1 JOINT DOCTRINE OF LANDING FORCE OPERATIONS
 - B. FMFM 5-1 ORGANIZATION AND FUNCTION OF MARINE AVIATION
 - C. OH 5 THE MARINE AVIATION COMBAT ELEMENT
 - D. FMFM 5-4A CLOSE AIR SUPPORT AND CLOSE-IN FIRE SUPPORT
 - E. OH 5-8 CONTROL OF AIRCRAFT AND MISSILES
 - F. CMC MARINE CORPS COMMAND AND CONTROL MASTER PLAN (3 AUG 87)
 - G. MCCDC MAGIF INTEROPERABILITY REQUIREMENTS CONCEPTS (MIRC) (4 MAY 1990)

4. MISSION: (ARC Compilation)

To control, direct, and coordinate close air support and other tactical air support operations.

5. DESCRIPTION: (ARC Compilation)

The DASC is the principal air control agency responsible for the conduct of tactical operations directly supporting ground forces. It is decentralized in its mode of operations and normally is collocated with the Fire Support Coordination Center (FSCC) ashore but is directly supervised by the designated TACC/TADC. The DASC is normally the first major air control agency ashore and lands in the same category as the senior ground combat element fire support coordination center (FSCC); i.e., scheduled or on-call waves. The DASC coordinates close air support strikes, assault support, and air reconnaissance missions which require coordination with fire support means; disseminates friendly and enemy aircraft information to the FAAD units to ensure effective employment of the Stinger missile system; and coordinates the distribution of air assets assigned by the TACC (afloat) and helicopter direction center to appropriate terminal control agencies. These terminal control agencies include the forward air controller (FAC), the tactical air coordinator (airborne) (TAC(A)), the helicopter coordinator (airborne) (HC(A)), the naval aviation observer (NAO), and the air support radar teams.

6. FUNCTIONS:

(ARC Compilation)

- * *Receive fragmentary operation orders and coordinate scheduled preplanned direct air support.*
- * *Receive, process, and coordinate ground requests for immediate or on-call tactical air support.*
- * *Adjust preplanned schedules and divert airborne assets in accordance with the priorities of the continuing ground combat situation and the degree of decentralized authority assigned by the TACC/TADC.*
- * *Coordinate the execution of direct air support missions with other supporting arms through the appropriate FSCC to ensure maximum aircraft safety and minimum mutual interference.*
- * *Refer all conflicts in supporting arms activity to the appropriate FSCC for resolution.*
- * *Provide an operational point of contact for user agencies and direct support aircraft for the resolution of conflicting priorities and the coordination of efforts.*
- * *Serve as the ground combat element's operational point of contact to ensure air response to changing ground tactical situations and, if required, the reevaluation of priorities.*
- * *Coordinate with air control agencies external to the MAGTF.*
- * *Receive and disseminate to the ground element's air representative all pertinent tactical information reported by aircraft performing direct support missions.*
- * *Assign control of DASC aircraft to subordinate terminal control agencies such as TACP's, TAC(A)'s, FAC's, ASRT's, and landing zone control parties (LZCP's).*
- * *Provide aircraft and other air control agencies with advisory information to assist in the conduct of safe flight. Such information pertains to artillery and naval gunfire, airstrikes, TPQ drops, enemy antiaircraft activity, and restrictive fire plans.*
- * *Assign general routes of aircraft approach and retirement.*
- * *Record, monitor, and display information on the planned and existing state of direct air support missions and advises TACC, TADC, and FSCC as required.*

7. ESTABLISHMENT:

(ARC Compilation)

- A. INITIATING AUTHORITY:
MAGTF Commander
- B. CONTROLLING AUTHORITY:
Designated Tactical Air Commander (TAC)
- C. SUPERVISING AUTHORITY:

MACS/MASS Detachment Officer-In-Charge

D. ORGANIZATIONAL STRUCTURE:

DASC is manned and DASC equipment is organic to the Marine Air Support Squadron (MASS) of the Marine Air Control Group (MACG). (5-8 officers and 10-15 enlisted)

- * *DASC OIC*
- * *DASC Watch Sections (2-3)*
 - * *DASC Watch Officers/supervisors*
 - * *DASC communications personnel*
 - * *DASC plot board/assistants*
- * *Deployed Air Support Radar Teams (ASRT's)*
- * *Forward Air Controllers (FAC's)*
- * *Tactical Air Coordinators (TAC's)*
- * *Helicopter Coordinators (HC's)*

E. MANNING:

The DASC is manned with personnel from the Marine Air Support Squadron (MASS). Specific personnel assignments to the DASC will depend on the type of DASC employed and the specified DASC mission.

F. LOCATION:

(FMFM 5-4A)

(1) AFLOAT:

The DASC is not established afloat.

(2) ASHORE:

The DASC is normally the first major air control agency to land in an amphibious operation. It will usually be collocated (geographically and/or electronically) with the Fire Support Coordination Center (FSCC) of the Ground Combat Element.

G. COORDINATION:

(ARC Compliance)

(1) HIGHER:

TFCC/FP

LFOC

MAGTF CC/COC

MAGTF CIC

TACC (A) (during amphibious operations)

TACC

TADC

(2) ADJACENT:

JIC SACC LFSP SCC

SARC HDC TACLOG GP TCC

SSES TAOC CSSOC

CIC FSCC

TIC FDC

SRIG/SRIG DET-CC (if established)

GCE COC

GCE CIC

(3) LOWER:

FAC's

TAC's

ASRT's

*** *All aircraft conducting close air support and close-In fire support, assault support, and specified air reconnaissance activities within the assigned area of operations.***

H. COMMUNICATIONS CONNECTIVITY:

(ARC Compilation)

(1) HIGHER:

*** *Established Tactical GENSER Communications Center (TCC) for secure worldwide GENSER teletype communications.***

*** *Established LF secure and non-secure voice radio communications circuits.***

(2) ADJACENT:

*** *Established Tactical GENSER Communications Center (TCC) for secure GENSER teletype communications.***

*** *Established LF secure and non-secure wireline, telephone, and radio communications networks.***

(3) LOWER:

- * *ACE secure and non-secure wireline, telephone, and radio communications networks.*

8. PRIMARY SYSTEMS EMPLOYED:

(ARC Compilation)

The DASC will incorporate a several manual and automated systems to perform the primary and supporting functions of the DASC. Some or all of the following systems may be employed within the DASC:

- * *AN/UYQ-3A - Airborne-Mobile Direct Support Central*
- * *AN/TSQ-155(V) - Improved Direct Air Support Central (IDASC)*
- * *AN/UYQ-83 or AN/UYK-85 (FMF-EUCE)*
- * *Tactical Combat Operations (TCO) software*
- * *Manual plot and status boards*
- * *Various single channel HF/VHF/UHF radio systems*

9. OPTIONAL SYSTEMS EMPLOYED:

(ARC Compilation)

Other MAGTF, JTF, Theater CINC and rapid response national and/or Special Operations Force (SOF) aviation liaison teams employ various portable computer and communications systems that may be utilized in a DASC during joint/contingency operations. The following optional systems may be employed:

- * *IBM Compatible Portable Computer Systems*
- * *AN/PSC-2A - Digital Communications Terminal (DCT)*
- * *Portable SATCOM systems providing secure voice, teletype, and facsimile communications.*

10. REPORTS/PRODUCTS PROVIDED:

(ARC Compilation)

- * *Appropriate DASC Plans, Orders, Annexes, Estimates*
- * *Daily Air Plan/Frag/Status/Modification*
- * *Close Air Support and Close-In Fire Support missions and status reports.*
- * *Air status information reports for assigned sectors.*
- * *DASC Situation Reports*
- * *Engagement Reports*
- * *Ground and Air intelligence information reports*
 - * *ASRT Radar Reports*
 - * *FAC/TAC visual reports (BDA and SALUTE)*
 - * *Aerial Observer (AO) reports (BDA and SALUTE)*

1. LONG TITLE: MARINE WING SUPPORT GROUP

2. SHORT TITLE: MWSG

3. REFERENCES:

- A. FMFM 3-30 COMMUNICATIONS
- B. FMFRP 1-11 FLEET MARINE FORCE ORGANIZATION
- C. OH 3-31 MARINE AIR-GROUND TASK FORCE
COMMAND ELEMENT COMMUNICATIONS
- D. OH 4-1 COMBAT SERVICE SUPPORT OPERATIONS
- E. MCCDC MAGTF INTEROPERABILITY
REQUIREMENTS CONCEPTS (MIRC) (4
MAY 1990)

4. MISSION:

(FMFRP 1-11 pg 5-40)

To provide all essential ground support requirements to aid designated fixed- or rotary-wing components of a Marine aviation combat air station, when based thereon.

5. DESCRIPTION:

(ARC Compilation)

The MWSG is an established Fleet Marine Force aviation support unit with a formally approved Table of Organization (T/O) assigned to the Marine Air Wing (MAW). The MWSG is not a designated C3I Center but it does perform certain functions for the ACE that is comparable to the functions performed for ground units by the CSSE's CSSOC. During MAGTF operations the MWSG or task organized MWSG detachment establishes a space or facility where aviation specific ground based logistics, engineering, construction, motor transport, material handling, and fuel dispensing activities are coordinated. The MWSG is composed of a H&HS squadron plus two fixed wing and two rotary wing support squadrons. The MWSG is organized and equipped for employment as an integral unit in support of the ACE.

6. FUNCTIONS:

(FMFRP 1-11 pg 5-41)

- * Provide motor transport support.
- * Provide engineer equipment support.
- * Provide material handling equipment and support for MAW units.
- * Provide refueling support for ground equipment and aircraft.
- * Provide tactical airfield fuel dispensing systems, as required, for MAW units.
- * Provide camp construction and facilities maintenance for MAW units.

- * Provide organizational maintenance for motor transport and engineering equipment with a contact capability for designated MAW units.
- * Provide mobile electric power (MEP) for the MAW.
- * Provide essential water and hygiene support in the area of potable water, bath facilities, and laundry facilities for the MAW.
- * Locate quarries, sand and gravel pits, and other sources of construction material in the objective area.
- * Provide expedient/minor repair of existing airfields, runways/taxiways.

7. **ESTABLISHMENT:**

(ARC Completion)

A. **INITIATING AUTHORITY:**

ACE Commander

B. **CONTROLLING AUTHORITY:**

ACE G/S4

C. **SUPERVISING AUTHORITY:**

Commanding Officer MWSG or OIC MWSG Detachment

D. **ORGANIZATIONAL STRUCTURE:**

(EMPRP 1-11pg 3-4)

- * One Headquarters & Headquarters Squadron
- * Two Marine Wing Support Squadrons, Fixed-Wing
- * Two Marine Wing Support Squadrons, Rotary-Wing
- * Task Organized MWSG Detachments

E. **MANNING:**

(ARC Completion)

The MWSG is an established unit of the Marine Air Wing (MAW) with a formal Table of Organization (T/O). Task organized MWSG detachments deploy with the ACE of a MAGTF.

F. **LOCATION:**

(ARC Completion)

(1) **AFLOAT:**

The MWSG or MWSG detachments will be embarked aboard the same ships as other ACE units usually on the air group transport ships with the fixed or rotary wing flying squadrons being supported.

(2) **ASHORE:**

The preponderance of the MWSG or MWSG detachment will be collocated at the established or expeditionary airfield that supports air operations.

G. COORDINATION:

(ARC Completion)

(1) HIGHER:

- * **MAGTF COMMAND CENTER (CC) (if established)**
- * **JTF/THEATER CINC J-4**
- * **TFCC/FP**
- * **MAGTF CC/COC**
- * **TACC**

(2) ADJACENT:

JIC LFOC LFSP
CIC HLSC TACLOG GP
MAGTF COC GCE COC CSSOC
MAGTF CIC GCE CIC
ACE CIC

(3) LOWER:

- * **Deployed MWSG units**

H. COMMUNICATIONS CONNECTIVITY:

(ARC Completion)

(1) HIGHER:

- * ***Ships intercom, octv, and dial telephone to elements on same ship.***
- * ***Ships GENSER Communication Center (SCC) for secure worldwide GENSER voice and teletype communications.***
- * ***Established tactical secure and non-secure wireline and telephone systems.***
- * ***Established Tactical GENSER Communications Center (TCC) for secure worldwide GENSER teletype communications.***
- * ***Established LF secure and non-secure voice radio communications circuits.***

(2) ADJACENT:

- * ***Ships intercom, octv, and dial telephone to elements on same ship.***
- * ***Ships GENSER Communication Center (SCC) for secure worldwide GENSER voice and teletype communications.***

- * *Established Tactical GENSER Communications Center (TCC) for secure GENSER teletype communications.*
- * *Established tactical secure and non-secure wireline and telephone systems.*
- * *Tactical MAGTF secure and non-secure wireline, telephone, and radio communications networks.*

(3) LOWER:

- * *Ships intercom, cctv, and dial telephone to elements on same ship.*
- * *Ships GENSER Communication Center (SCC) for secure worldwide GENSER voice and teletype communications.*
- * *ACE secure and non-secure wireline, telephone, and radio communications networks.*

8. PRIMARY SYSTEMS EMPLOYED:

(ARC Compilation)

Generally, all systems found in the MWSG or MWSG detachments are strictly CSS related, however the following systems may be used for information exchange:

- * *Combat Service Support Information Network (CSSIN)*
- * *Standard Embarkation Management System (SEMS)*
- * *Computer-Aided Embarkation Management System (CAEMS)*
- * *Marine Integrated Personnel System (MIPS)*
- * *Marine Integrated Logistics System (MILOGS)*
- * *AN/UYK-83 or AN/UYK-85 (FMF-EUCE)*
- * *AN/PSC-2A - Digital Communications Terminal (DCT)*

9. OPTIONAL SYSTEMS EMPLOYED:

(ARC Compilation)

- * *IBM Compatible Portable Computer Systems*

10. REPORTS/PRODUCTS PROVIDED:

(ARC Compilation)

- * *Aircraft, equipment, missile, bomb and other munitions, and unit status reports.*
- * *Submits maintenance data and damage reports concerning squadron aircraft.*
- * *Expeditionary airfield survey and engineer reconnaissance reports.*

1. LONG TITLE: GROUND COMBAT ELEMENT COMBAT INTELLIGENCE CENTER
2. SHORT TITLE: GCE CIC
3. REFERENCES:
 - A. FMFM 3-21 MAGTF INTELLIGENCE OPERATIONS
 - B. FMFRP 3-28 TRI-MEF STANDING OPERATING PROCEDURES FOR FIELD INTELLIGENCE OPERATIONS
 - C. OH 6-1A GROUND COMBAT ELEMENT COMMAND AND CONTROL
 - D. MCCDC MAGTF INTEROPERABILITY REQUIREMENTS CONCEPTS (MIRC)(4 MAY 1990)

4. MISSION:

(ARC Compilation)

A. Primary:

To provide the GCE commander, staff, assigned and attached elements with information and intelligence required for planning, and execution of assigned GCE missions.

B. Secondary:

To contribute to the overall intelligence effort and satisfaction of intelligence requirements of other MAGTF elements and specified higher, adjacent, and supporting commands during joint or combined operations.

5. DESCRIPTION:

(ARC Compilation)

The GCE CIC is the intelligence, reconnaissance, and surveillance control and coordination agency of the GCE. It oversees the information and intelligence support activities of the GCE from requirements definition and forwarding requests for information, intelligence, and electronic warfare support for other MAGTF, national, theater, and joint or combined assets to the overall management of the internal GCE information, intelligence, reconnaissance, surveillance efforts. The GCE CIC processes, integrates, evaluates, interprets and disseminates information and intelligence obtained by MAGTF elements, external agencies, and organic GCE assets on terrain, weather, and enemy forces. The GCE CIC primarily supports the GCE Commander and his staff in the planning and execution of combat operations and will normally concentrate its efforts on the enemy forces and activities that affect current and projected GCE operations up to 48 hours in the future and within the assigned GCE area of operations.

6. FUNCTIONS:

(ARC Compilation)

- * *Directs, coordinates, and supervises organic GCE intelligence, surveillance, and reconnaissance activities.*
- * *Prepares GCE intelligence and counterintelligence estimates.*
- * *Prepares and coordinates intelligence input to GCE plans, orders, annexes, and estimates.*
- * *Directs, coordinates, and supervises the development and forwarding of GCE Essential Elements of Information / Other Intelligence Requirements (EEI/OIR) to the MAGTF CIC.*
- * *Directs, coordinates, and supervises the dissemination of intelligence to the GCE Commander, GCE staff and to senior, adjacent, subordinate, and other commands as directed.*
- * *Prepares and implements the GCE portion of the MAGTF organic intelligence collection plan.*
- * *Establishes and maintains intelligence liaison with appropriate higher, adjacent, and supporting commands and intelligence agencies as directed.*
- * *Directs, coordinates, and supervises the activities of assigned and attached intelligence specialist teams as necessary.*
- * *Directs, coordinates, and supervises the production of intelligence specifically tailored for GCE.*
- * *Directs, coordinates, and determines GCE requirements for maps, charts, graphic aids, and imagery products and supervises appropriate distribution.*
- * *Establishes and maintains a Tactical-Sensitive Compartmented Information Facility (T-SCIF) for the security and dissemination of sensitive intelligence to the GCE as directed.*
- * *Assists in the planning and coordination required for signals intelligence and electronic warfare operations and activities within the GCE area of operations as directed.*
- * *Assists in the planning and coordination required for counterintelligence operations and activities within the GCE area of operations as directed.*
- * *Assists in the planning and coordination required for Unattended Ground Sensor operations and activities within the GCE area of operations as directed.*
- * *Assists in the planning and coordination required for Remotely Piloted Vehicle operations and activities within the GCE area of operations as directed.*
- * *Assists in the planning and coordination required for Ground Reconnaissance operations and activities within the GCE area of operations as directed.*
- * *Assists in the planning and coordination required for Interrogation/Translation of Enemy Prisoners of War (EPW) / detainees and the exploitation of captured enemy documents, material, and equipment obtained within the GCE area of operations as directed.*

- * *Arranges for and coordinates dissemination of weather data for the GCE.*
- * *Directs, coordinates, and supervises the production and dissemination of GCE target intelligence and assist in the establishment and manning of the target information section of the GCE FSCC and CATF SACC.*
- * *Directs, coordinates, and supervises the preparation of the GCE periodic intelligence summaries and terrain studies.*
- * *Maintains enemy situation maps and order of battle maps of the GCE area of operations.*
- * *Maintains reconnaissance, observation and surveillance plot, and status boards of GCE area of operations as necessary.*

7. ESTABLISHMENT:

(ARC Compilation)

A. INITIATING AUTHORITY:

GCE Commander

B. CONTROLLING AUTHORITY:

GCE Commander

C. SUPERVISING AUTHORITY:

GCE G/S-2

D. ORGANIZATIONAL STRUCTURE:

(FMFRP 3-28, pg 3-5)

- * *G/S-2*
- * *Assistant G/S-2*
- * *CIC Watch Officers*
- * *CIC Watch Chiefs/Supervisors*
- * *Intelligence Operations Branch*
 - * *Collections Section*
 - * *Analysis Section*
 - * *Target Intelligence Section*
 - * *Intelligence Liaison Section*
 - * *SIGINT/GEW/SSO Section*

E. MANNING:

(ARC Compilation)

Manning of the GCE CIC is a combined effort using the personnel assets of the GCE G/S-2 Section with selected personnel from subordinate elements of the GCE and other possible intelligence augmentees

or liaison personnel from other MAGTF, higher, adjacent, or supporting commands as required. The GCE CIC must be sufficiently staffed to maintain sustained 24 hour operations.

F. LOCATION:

(ARC Compilation)

(1) AFLOAT:

During amphibious operations, the GCE CIC is not normally established. Designated GCE CIC personnel will usually augment the MAGTF Command Element Intelligence Section in the Amphibious Task Force (ATF) JIC to ensure a sustained 24 hour capability is maintained to support both CATF and CLF requirements.

(2) ASHORE:

(ARC Compilation)

The GCE CIC will normally be located in the vicinity of the GCE COC within the designated GCE Command Post (C.P.).

G. COORDINATION:

(ARC Compilation)

(1) HIGHER:

TFCC/FP (afloat)	SACC (afloat)	SCC
JIC (afloat)	SASS	
MAGTF CIC	TACC (A)	
MAGTF CC (if established)		

MAGTF COC

(2) ADJACENT:

GCE COC	FSCC	OSCC
ACE CIC	DASC	TCC
SRIG/SRIG DET-CC (if established)		
	ITOC	SSCC
MAFC	CDEC	
SARC	CMEC	
OCAC	CSSOC	
SSES (afloat)		

- * *Other Joint/Combined intelligence units/assets operating adjacent to the GCE area of operations*

(3) LOWER:

- * *Organic GCE surveillance, target acquisition, reconnaissance, and intelligence assets of the GCE.*

H. COMMUNICATIONS CONNECTIVITY:

(ARC Compilation)

(1) HIGHER:

- * *Ships intercom, cctv, and dial telephone to elements on same ship (when afloat).*
- * *Ships GENSER Communication Center (SCC) for secure worldwide GENSER voice and teletype communications (when afloat).*
- * *Ships Signals Exploitation Space (SSES) for secure worldwide voice and teletype special intelligence communications (SPINTCOMM) (when afloat).*
- * *Established tactical secure and non-secure wireline and telephone systems (ashore).*
- * *Established Tactical GENSER Communications Center (TCC) for secure worldwide GENSER teletype communications (ashore).*
- * *Established tactical Special Security Communications Center (SSCC) for worldwide special intelligence communications (SPINTCOMM) (ashore).*
- * *Established LF secure and non-secure voice radio communications circuits (ashore).*

(2) ADJACENT:

- * *Ships intercom, cctv, and dial telephone to elements on same ship (when afloat).*
- * *Ships GENSER Communications Center (SCC) for secure GENSER voice and teletype communications to other ATF ships (when afloat).*
- * *Established Tactical GENSER Communications Center (TCC) for secure GENSER teletype communications (when ashore).*
- * *Established tactical Special Security Communications Center (SSCC) for secure special intelligence communications (SPINTCOMM) (when ashore).*
- * *Tactical MAGTF secure and non-secure wireline, telephone, and radio communications networks (when ashore).*

(3) LOWER:

- * *Ships intercom, cctv, and dial telephone to elements on same ship (when afloat).*

- * *Ships GENSER Communications Center (SCC) for secure GENSER voice and teletype communications to other ATF ships (when afloat).*
- * *Established tactical Special Security Communications Center (SSCC) for secure special intelligence communications (SPINTCOMM) (when ashore).*
- * *Tactical GCE secure and non-secure wireline, telephone, and radio communications networks (ashore).*

8. PRIMARY SYSTEMS EMPLOYED:

(ARC Compilation)

The systems employed by the GCE CIC will be a combination of manual and automated systems. See JIC brief sheet for afloat systems. Some or all of the following systems will be used by the GCE CIC during subsequent operations ashore:

- * *Intelligence Analysis System (IAS) Suite*
- * *AN/UYK-83 or AN/UYK-85 (FMF-EUCE)*
- * *Tactical Combat Operations (TCO) software*
- * *AN/USQ-90 - Position Location Reporting System (PLRS)*
- * *RT-1343/TSQ-129 - Position Location Reporting System - User Unit (PLRS-UU)*
- * *NAVSTAR Global Positioning System (GPS) user equipment*
- * *AN/PSC-2A - Digital Communications Terminal (DCT)*

9. OPTIONAL SYSTEMS EMPLOYED:

(ARC Compilation)

Embarked LF (MAGTF) intelligence assets and rapid response national and/or Special Operations Force (SOF) intelligence assets employ a variety of portable intelligence and communications systems that may be utilized in the GCE CIC. The following systems may be used to augment GCE CIC operations:

- * *IBM Compatible Portable Computer Systems*
- * *Various portable Secondary Imagery Dissemination Systems (SIDS)*
- * *DIA National Military Intelligence Support Team (NMIST) Systems*
- * *Joint Intelligence Liaison Element System (JILES)*
- * *NSA Mobile Cryptologic Support Facility (MCSF) or SATCOM Tributary system.*

10. REPORTS/PRODUCTS PROVIDED:

(ARC Compilation)

- * *GCE Intelligence estimates*
- * *GCE Intelligence Annexes/Apendices*
- * *GCE Periodic Intelligence Reports/Summaries*

- * *GCE SALUTE Reports*
- * *GCE Spot Reports*
- * *GCE Shell Reports*
- * *GCE Situation Reports*
- * *GCE Combat Patrol Reports*
- * *GCE Forward Observer (FO) Reports*
- * *GCE Surveillance and Target Acquisition (STA) Reports*
- * *GCE Ground Reconnaissance Reports*
- * *GCE Intelligence Briefings*
- * *GCE Counter-Battery Radar (CBR) Reports*
- * *GCE Intelligence Indications and Warning (I&W) reports*
- * *Enemy Prisoner of War (EPW) reports*

1. LONG TITLE: GROUND COMBAT ELEMENT COMBAT OPERATIONS CENTER
2. SHORT TITLE: GCE COC
3. REFERENCES:
- | | | |
|----|-----------|--|
| A. | FMFM 2 | THE MARINE AIR-GROUND TASK FORCE |
| B. | FMFM 3-30 | COMMUNICATIONS |
| C. | OH 1-100 | JOINT DOCTRINE FOR LANDING FORCE OPERATIONS |
| D. | OH 6-1 | GROUND COMBAT OPERATIONS |
| E. | OH 6-1A | GROUND COMBAT ELEMENT COMMAND AND CONTROL |
| E. | MCCDC | MAGTF INTEROPERABILITY REQUIREMENTS CONCEPTS (MIRC) (4 MAY 1990) |

4. MISSION:

(ARC Compilation)

To direct, control, coordinate, monitor, record, and supervise the tactical operations of the forces under the operational control of the GCE Commander.

5. DESCRIPTION:

(ARC Compilation)

The GCE COC is the primary control agency of the GCE. It contains the principal GCE command and control facilities and equipment required control of GCE elements during subsequent operations ashore. The composition of each GCE COC will normally be composed of selected staff representatives, liaison personnel, and requisite communications personnel and equipment to operate a planning center, a battle center, the Fire Support Coordination Center (FSCC), and elements of the Direct Air Support Center (DASC).

6. FUNCTIONS:

(ARC Compilation)

- * *Exercise overall command, control, and coordination of GCE assigned and attached forces.*
- * *Direct, control, and coordinate subordinate and supporting units, issue necessary operational directives and supervise GCE operations as directed by the GCE Commander.*
- * *Acquire and maintain current information concerning the status and operations of assigned and attached GCE forces.*

- * *Issue GCE operations plans and orders.*
- * *Establish measures to coordinate and control GCE operations.*
- * *Monitors status of MAGTF air assets and air operations.*
- * *Receives, monitors, and forwards (as required) information and reports from senior, adjacent, supporting, and subordinate assets.*
- * *Initiates support requests when available means are insufficient.*
- * *Receives and disseminates combat information as required.*
- * *Prepares and submits operational reports to higher headquarters.*
- * *Receives and disseminates weather data.*
- * *Reports NBC events and incidents.*
- * *Receives supporting arms requests and reports and maintains status.*

7. **ESTABLISHMENT:**

(ARC Compilation)

A. **INITIATING AUTHORITY:**

GCE COMMANDER

B. **CONTROLLING AUTHORITY:**

GCE COMMANDER

C. **SUPERVISING AUTHORITY:**

GCE G/S-3

D. **ORGANIZATIONAL STRUCTURE:**

(OH 6-1, Pg 3-29)

(OH 6-1A, Pg D-1)

* **Battle Staff**

- * **Division Watch Officer**
- * **Intel Watch Officer**
- * **Operations Watch Officer**
- * **FSC Watch Officer**

- * Watch Chief
- * Journal Chief
- * Communications Watch Standers
- * NBC Defense Control Center NCO
- * Plotters/Runners
- * The Planning Center
 - * G-3 Section
 - * G-2 Section
- * Supporting Arms Section
 - * FSCC
 - * DASC Elements
- * Clerks and administrative personnel.
- * Communications personnel and equipment.

E. MANNING:

(ARC Compilation)

Personnel to man the GCE COC are drawn primarily from the GCE staff with augmentation from subordinate GCE units and assigned or attached assets as required. The GCE COC must be manned with sufficient personnel to maintain sustained 24 hr combat operations which normally requires a minimum of three watch sections.

F. LOCATION:

(ARC Compilation)

(1) AFLOAT:

* *The GCE COC will be located aboard the task group command ship with the mission to transport and land the GCE. In certain cases, GCE COC personnel may be incorporated into the LFOC for unity of command and the ship-to-shore movement of the GCE.*

(2) ASHORE:

(ARC Compilation)

* *The GCE COC will be located in the main or forward GCE Command Post (CP). The GCE CP will be located where the GCE Commander determines that he can best facilitate command and control of subordinate units.*

G. COORDINATION:

(ARC Compilation)

(1) HIGHER:

- * **MAGTF COC**
- * **CSSOC**

(2) ADJACENT:

GCE CIC FSCC CSSD (if established)
ACE CIC TACC
TADC
TAOC
DASC
HDC

- * *Other elements in joint operations*

(3) LOWER:

FDC

- * *All subordinate assigned and attached units.*

H. COMMUNICATIONS CONNECTIVITY:

(ARC Compliance)

(1) HIGHER:

- * *Ships intercom, cctv, and dial telephone to elements on the same ship (when afloat).*
- * *Ships GENSER Communications Center (SCC) for secure worldwide GENSER voice and teletype communications (when afloat).*
- * *Ships Signals Exploitation Space (SSES) for secure worldwide voice and teletype special intelligence communications (SPINTCOM) (when afloat).*
- * *Established GCE secure and non-secure wireline and telephone circuits.*
- * *Established GCE Tactical GENSER Communications Center (TCC) for worldwide GENSER teletype communications (if required).*
- * *Established GCE Special Security Communications Center (SSCC) for secure worldwide voice and teletype special intelligence communications (SPINTCOMM) (if required).*
- * *Established GCE secure and non-secure voice radio communications circuits.*

(2) ADJACENT:

- * *Ships intercom, cctv, and dial telephone to elements on same ship (when afloat).*

- * *Ships GENSER Communications Center (SCC) for secure GENSER voice and teletype communications to other ships and/or units (when afloat).*
- * *Established GCE secure and non-secure wireline and telephone circuits.*
- * *Established secure and non-secure GCE GENSER tactical radio and circuits.*

(3) **LOWER:**

- * *Ships intercom, cctv, and dial telephone to elements on the same ship (when afloat).*
- * *Ships GENSER Communications Center (SCC) for secure GENSER voice and teletype communications to elements on other ships (when afloat).*
- * *Established GCE secure and non-secure wireline and telephone systems.*
- * *Established GCE secure and non-secure GENSER tactical radio circuits.*

8. **PRIMARY SYSTEMS EMPLOYED:**

(ARC Completion)

The types of systems available to the GCE COC afloat will depend upon the type of ship used and the individual ship's configuration. See LFOC for more details on afloat systems. During GCE operations ashore, the GCE COC will use both manual and automated systems to maintain command and control of assigned and attached assets. Generally, some or all of the following systems will be available for use by a GCE COC:

- * *AN/UYK-83 or AN/UYK-85 (FMF-EUCE)*
- * *Tactical Combat Operations (TCO) software*
- * *Marine Flexible Fire Support System (FIREFLEX)*
- * *Intelligence Analysis System (IAS) Suite or Workstation*
- * *Marine Integrated Personnel System (MIPS)*
- * *Marine Integrated Logistics System (MILOGS)*
- * *AN/USQ-90 - Position Location Reporting System (PLRS)*
- * *AN/TSQ-129 - Position Location Reporting System - Master Station / Alternate Master Station (PLRS-MS)*
- * *RT-1343/TSQ-129 - Position Location Reporting System - User Unit (PLRS-UU)*
- * *NAVSTAR Global Positioning System (GPS) user equipment*
- * *AN/PSC-2A - Digital Communications Terminal (DCT)*

9. OPTIONAL SYSTEMS EMPLOYED:

(ARC Compilation)

Other MAGTF, JTF, or national forces employ portable computer and communications systems that may be used in the GCE COC if required. The following systems are applicable:

- * *IBM Compatible Portable Computer Systems*
- * *Portable SATCOM systems providing secure voice, teletype, and facsimile communications.*
- * *Tactical Video Transmission Systems (TVTS)*

10. REPORTS/PRODUCTS PROVIDED:

(ARC Compilation)

- * *GCE operational estimates.*
- * *GCE operation plans, orders, and annexes.*
- * *GCE situation reports.*
- * *GCE status reports.*
- * *GCE situation maps and overlays.*
- * *Combat information reports (as required).*
- * *Air defense alerts.*
- * *Weather data reports.*
- * *NBC events, attacks, and incident reports.*

1. LONG TITLE: FIRE SUPPORT COORDINATION CENTER
2. SHORT TITLE: FSCC
3. REFERENCES:
- A. JCS PUB 1-02 DOD DICTIONARY OF MILITARY AND ASSOCIATED TERMS
 - B. FMFM 7-2 FIRE SUPPORT IN MARINE AIR-GROUND TASK FORCE OPERATIONS
 - C. FMFM 3-30 COMMUNICATIONS
 - D. OH 6-2A FIRE SUPPORT COORDINATOR'S GUIDE
 - E. MCCDC MAGTF INTEROPERABILITY REQUIREMENTS CONCEPTS (MIRC)(4 MAY 1990)

4. MISSION: **(ARC Compilation)**
To plan, coordinate, and control available fire support.

5. DESCRIPTION: **(ARC Compilation)**
The FSCC is the designated landing force (MAGTF) planning and coordination agency for fire support during subsequent operations ashore and is comparable to the SACC during afloat and amphibious operations. Within the MAGTF structure, FSCC's are only established within the GCE and several FSCC's may be established at differing levels (i.e., Division, Regiment and Battalion FSCC's). The operation of FSCCs at each level complements the operations of the FSCCs at the other levels with as little duplication as possible. Facilities, equipment and materials are provided by the headquarters to which the FSCC belongs. Supporting arms units provide representatives and equipment necessary for conducting coordination, targeting, and communications functions for their respective arms.

6. FUNCTIONS: **(ARC Compilation)**
- * *Plans fire support coordination and provides appropriate portions of appendices, annexes, enclosures, frag orders, and schedules as input to operation orders and plans.*
 - * *Maintains the status of fire support and fire support units. Reports the status to the commander and higher headquarters.*
 - * *Establishes fire support coordination and control procedures.*
 - * *Monitors and coordinates fire support missions with the scheme of maneuver for subordinate and supporting units.*
 - * *Receives, processes, develops, and disseminates target information and target lists.*

7. **ESTABLISHMENT:**

(OH 5-2A, App 3)

A. **INITIATING AUTHORITY:**

Commanding Officer, GCE

B. **CONTROLLING AUTHORITY:**

G/S-3, GCE

C. **SUPERVISING AUTHORITY:**

Fire Support Coordinator

D. **ORGANIZATIONAL STRUCTURE:**

- * Fire Support Coordinator
- * Artillery Liaison Officer
- * Air Officer
- * Naval Gunfire Officer
- * Target Information Officer (at MEF level)
- * Target Intelligence Officer (at MEF level)
- * Mortar Platoon Representative (at MEU level)
- * Watch Officer
- * FSCC Liaison Chief
- * Journal Clerk
- * Plotter
- * Communications Personnel

E. **MANNING:**

(FMPM 7-2 pg 4-10)

The division FSCC is staffed by personnel from the headquarters battery, artillery regiment, and from the headquarters battalion, Marine division.

F. **LOCATION:**

(ABC Comp 100)

(1) **AFLOAT:**

Not established.

(2) **ASHORE:**

In the GCE command post in close proximity to the GCE COC and GCE CIC.

G. COORDINATION:

(ARC Compilation)

(1) HIGHER:

TFCC/FP SACC
LFOC SASS
JIC TACC (A)
MAGTF CC TACC
MAGTF COC TADC

(2) ADJACENT:

SARC
GCE CIC
DASC

(3) LOWER:

All subordinate FSCCs.
FDC

H. COMMUNICATIONS CONNECTIVITY:

(ARC Compilation)

(1) HIGHER:

- * *Established GCE secure and non-secure wireline and telephone circuits.*
- * *Established GCE Tactical GENSER Communications Center (TCC) for worldwide GENSER teletype communications (if required).*
- * *Established GCE secure and non-secure voice radio communications circuits.*

(2) ADJACENT:

- * *Established GCE secure and non-secure wireline and telephone circuits.*
- * *Established secure and non-secure GCE GENSER tactical radio and circuits.*

(3) LOWER:

- * *Established GCE secure and non-secure wireline and telephone systems.*
- * *Established GCE secure and non-secure GENSER tactical radio circuits.*

8. **PRIMARY SYSTEMS EMPLOYED:**

(MIRC)

- * *AN/UYQ-83 or AN/UYQ-85 (FMF-EUCE)*
- * *Tactical Combat Operations (TCO) software*
- * *Marine Flexible Fire Support System (FIREFLEX)*
- * *Intelligence Analysis System (IAS) Workstation (as required)*
- * *AN/USQ-90 - Position Location Reporting System (PLRS)*
 - * *AN/TSQ-129 - Position Location Reporting System - Master Station / Alternate Master Station (PLRS-MS)*
 - * *RT-1343/TSQ-129 - Position Location Reporting System - User Unit (PLRS-UU)*
- * *NAVSTAR Global Positioning System (GPS) user equipment*
- * *AN/PSC-2A - Digital Communications Terminal (DCT)*

9. **OPTIONAL SYSTEMS EMPLOYED:**

(ARC Compilation)

- * *IBM Compatible Portable Computer Systems*

10. **REPORTS/PRODUCTS PROVIDED:**

(ARC Compilation)

- * *Fire Support plans and orders*
- * *Situation Reports concerning fire support and fire support units.*
- * *Target list and target information.*

1. LONG TITLE: FIRE DIRECTION CENTER
2. SHORT TITLE: FDC
3. REFERENCES:
- A. JCS PUB 1-02 DOD DICTIONARY OF MILITARY AND ASSOCIATED TERMS
 - B. FMFM 7-2 FIRE SUPPORT IN MARINE AIR-GROUND TASK FORCE OPERATIONS
 - C. FMFM 3-30 COMMUNICATIONS
 - D. FMFM 7-4 FIELD ARTILLERY SUPPORT
 - E. MCCDC MAGTF INTEROPERABILITY REQUIREMENTS CONCEPTS (MIRC) (4 MAY 1990)

4. MISSION: (ARC Compilation)
To control and coordinate the technical and tactical application and execution of artillery and/or mortar fire support.

5. DESCRIPTION: (ARC Compilation)
The FDC is the agency at the supporting artillery or mortar element/unit that exercises tactical and technical fire direction techniques to bring effective fire support on the intended target. The FDC consists of gunnery and communications personnel and equipment that performs the primary tasks of receiving target information or intelligence and requests for fire, then translating into appropriate fire direction. FDCs are established by the artillery regiment, battalions and batteries and by infantry mortar platoons. In many cases the FDC is the "operations center" of the respective fire support unit.

6. FUNCTIONS: (FMFM 7-4, pg. 3-3)
- * Continuous, accurate, and timely fire support under varying conditions of weather, visibility, and terrain.
 - * Coordination of subordinate units' fires and integration of the artillery fire plan with air and naval gunfire through the efforts of the artillery liaison officer with the fire support coordination center (FSCC) of the supported unit.
 - * Flexibility sufficient to engage all types of targets.
 - * Prompt massing of fires of all available units in any area within range.
 - * Rapid delivery of fires within the zone of the supported unit.

* Control of artillery fire through orders, policies, and priorities and by means of adequate liaison and communications.

* Implementation of safety measures.

* Target information.

7. ESTABLISHMENT:

(FMFM 7-4, pg 3-6)

A. INITIATING AUTHORITY:

Commanding Officer of the firing unit.

B. CONTROLLING AUTHORITY:

S-3 or Assistant S-3 of the firing unit

C. SUPERVISING AUTHORITY:

Designated Fire Direction Officer

D. ORGANIZATIONAL STRUCTURE:

- * Battalion S-3
- * Fire Direction Officer
- * Nuclear and Chemical Weapons Employment Officer
- * Counterfire Officer
- * Operations Chief
- * Assistant Operations Chief
- * Operations Assistants
- * Battalion S-2
- * Intelligence Officer
- * Intelligence Chief
- * Intelligence Assistants
- * Switchboard Operator
- * Radio and Telephone Operators
- * FDC Watch Officers

E. MANNING:

(ARC Compilation)

The FDC is manned by personnel from the headquarters element of the firing unit.

F. LOCATION:

(ARC Compilation)

(1) AFLOAT:

Not established.

(2) ASHORE:

(FMFM 7-4, pg 5-31)

In the artillery command post in close proximity to the Commanding Officer.

G. COORDINATION:

(ARC Compilation)

(1) HIGHER:

TFCC/FP SACC

LFOC SASS

JIC

MAGTF COC

MAGTF CIC

GCE FSCC

(2) ADJACENT:

All supported unit FSCCs.

All adjacent unit FDCs.

(3) LOWER:

All subordinate FDCs.

H. COMMUNICATIONS CONNECTIVITY:

(ARC Compilation)

(1) HIGHER:

* *Established GCE secure and non-secure wireline and telephone circuits.*

* *Established GCE Tactical GENSER Communications Center (TCC) for worldwide GENSER teletype communications (if required).*

* *Established GCE secure and non-secure voice radio communications circuits.*

(2) ADJACENT:

* *Established GCE secure and non-secure wireline and telephone circuits.*

* *Established secure and non-secure GCE GENSER tactical radio and circuits.*

(3) LOWER:

- * *Established GCE secure and non-secure wireline and telephone systems.*
- * *Established GCE secure and non-secure GENSER tactical radio circuits.*

8. PRIMARY SYSTEMS EMPLOYED:

(MIRC)

- * *AN/UYQ-83 or AN/UYQ-85 (FMF-EUCE)*
- * *Tactical Combat Operations (TCO) software*
- * *Marine Flexible Fire Support System (FIREFLEX)*
- * *AN/GYK-29 - Battery Computer System*
- * *AN/TMQ-31 - Field Artillery Meteorological Data System (FAMDS)*
- * *AN/TPQ-36 - Firefinder*
- * *Fire Support Team Digital Message Device (FIST-DMD)*
- * *AN/USQ-90 - Position Location Reporting System (PLRS)*
 - * *AN/TSQ-129 - Position Location Reporting System - Master Station / Alternate Master Station (PLRS-MS)*
 - * *RT-1343/TSQ-129 - Position Location Reporting System - User Unit (PLRS-UU)*
- * *NAVSTAR Global Positioning System (GPS) user equipment*
- * *AN/PSC-2A - Digital Communications Terminal (DCT)*
- * *Intelligence Analysis System (IAS) Workstation (as required)*

9. OPTIONAL SYSTEMS EMPLOYED:

(ARC Compilation)

- * *IBM Compatible Portable Computer Systems*
- * *Marine Integrated Logistics System (MILOGS)*

10. REPORTS/PRODUCTS PROVIDED:

(FMFM 7-4, pg. 3-9)

- * *Command Post Report*
- * *Fire Capabilities Report (FIRCAP)*
- * *Ammunition Report (AMREP)*
- * *Firing Reports (FIREP)*
- * *Major Target Report (TAREP)*
- * *Shelling Report (SHELREP/MORTREP/BOMREP)*
- * *Situation Report (SITREP)*
- * *Operations Summary (OPSUM)*
- * *Unit Status Report*

ACRONYM AND ABBREVIATION LIST

AAA	Antiaircraft Artillery
AACO	Assistant Amphibious Communications Officer
AAW	Antiair Warfare
AAWC	Antiair Warfare Commander
ABCCC	Airborne Battlefield Command and Control Center
ACE	Aviation Combat Element
ADP	Automated Data Processing
AFCC	Assistant Force Cryptologic Coordinator
AFDS	Amphibious Flagship Data System
AIS	Automated Information System
AMASS	Advanced Marine Airborne Signals Intelligence System
AMREP	Ammunition Report
AMS	Alternate Master Station (PLRS)
ANGLICO	Air-Naval Gunfire Liaison Company
AO	Aerial Observer
AOA	Amphibious Objective Area
AOCAC/SILC	Automated Operations, Control and Analysis Center/Special Intelligence Lightweight Communications System
ARC	Atlantic Research Corporation Professional Services Group
ARTY	Artillery
ARTY BN	Artillery Battalion
ASC	Automated Services Center
ASIS	Amphibious Support Information System
ASRT	Air Support Radar Team
ASST	Assistant
ASW	Antisubmarine Warfare
ASWC	Antisubmarine Warfare Commander
ATACC	Advanced Tactical Air Command Center
ATDS	Airborne Tactical Data System
ATF	Amphibious Task Force

BDA	Bomb Damage Assessment
BLT	Battalion Landing Team
BN	Battalion
BOMREP	Bombing Report
C ²	Command and Control
C ³ I	Command, Control, Communications, and Intelligence
C ³ CM	Command, Control, and Communications Countermeasures
C ⁴ I ²	Command, Control, Communications, Computers, Intelligence and Interoperability
CAEMS	Computer-Aided Embarkation Management System
CAS	Close Air Support
CATF	Commander, Amphibious Task Force
CC	Command Center
CCSC	Combat Cryptologic Support Console
CCTV	Closed Circuit Television
CDEC	Captured Document Exploitation Center
CE	Command Element
CECM	Communications Electronics Countermeasures
CEO	Communications Electronics Officer
CEOI	Communications Electronics Operating Instruction
CESM	Cryptologic Electronic Warfare Support Measures
CIC	Combat Intelligence Center (USMC), Combat Information Center (USN)
CINC	Commander-in-Chief
CIT	Counter Intelligence Team
CLF	Commander, Landing Force
CMC	Commandant of the Marine Corps
CMDR	Commander
CMEC	Captured Materiel Exploitation Center
CMR	Counter Mortar Radar
CMR SEC	Counter Mortar Radar Section
CNTL EL	Control Element

CO	Company
COC	Combat Operations Center
COMB	Combined
COMM	Communications
COMM BN	Communications Battalion
COMM CO	Communications Company
COMNAVSECGRU	Commander, Naval Security Group
COMSEC	Communications Security
COMTECHREP (Type A)	Complementary Technical Reports (enemy aircraft)
COMTECHREP (Type B)	Complementary Technical Reports (enemy ammunition, missiles, rockets, explosives, etc.)
COMTECHREP (Type C)	Complementary Technical Reports (enemy equipment not covered by Type A or B)
COORD	Coordination
CP	Command Post
CRITICOM	Critical Intelligence Communications
CSAW	Cryptologic Support to Amphibious Warfare
CSG	Cryptologic Support Group
CSO	Cryptologic Staff Officer
CSS	Combat Service Support
CSSD	Combat Service Support Detachment
CSSE	Combat Service Support Element
CSSOC	Combat Service Support Operations Center
CTR	Center
CUDIX	Common User Digital Information Exchange
DAMA	Demand Assignment Multiple Access
DASC	Direct Air Support Center
DCA	Defense Communications Agency
DCS	Defense Communications System
DCT	Digital Communications Terminal
DENTOC	Dental Operations Center
DET	Detachment

DF	Direction Finding
DIV	Division
DoD	Department of Defense
DoDIIS	Department of Defense Intelligence Information System
DSSCs	Defense Special Security Communications System
DTAF	Dynamic Tactical Area File
ECM	Electronic Countermeasures
EEI/OIR	Essential Elements of Information/Other Intelligence Requirements
EHF	Extra High Frequency
EMCON	Emission Control
ENG	Engineer/Engine
ENG BN	Engineer Battalion
ENG PLT	Engineer Platoon
ENG RECON	Engineer Reconnaissance
ENGROC	Engineer Operations Center
ENG SPT BN	Engineer Support Battalion
EOB	Electronic Order of Battle
EPW	Enemy Prisoner of War
ESS	Electronic Intelligence Support System
EUCE	End-User Computing Equipment
EVAL	Evaluation/Evaluate
EW	Electronic Warfare
EWC	Electronic Warfare Coordinator
EWO	Electronic Warfare Officer
FAAD	Forward Area Air Defense
FAC	Forward Air Controller
FDC	Fire Direction Center
FDDS	Flag Data Display System
FE	FIIU Element
FIC	Fleet Intelligence Center

FIIU	Force Imagery Interpretation Unit
FIRCAP	Fire Capabilities Report
FIREP	Firing Report
FIST	Fleet Imagery Support Terminal
FLIGHTREPS	Flight Reports
FMF	Fleet Marine Force
FMF-EUCE	Fleet Marine Force End-User Computing Equipment
FMFM	Fleet Marine Force Manual
FMFRP	Fleet Marine Force Reference Publication
FORECON	Force Reconnaissance
FOSIC	Fleet Ocean Surveillance Information Center
FOSIF	Fleet Ocean Surveillance Information Facility
FRE	Force Reconnaissance Element
FSB	Fleet Satellite Broadcast System
FSC	Fire Support Coordinator
FSCC	Fire Support Coordination Center
FSO	Fire Support Officer
FSSG	Force Service Support Group
FW	Fixed Wing
GCE	Ground Combat Element
GENSER	General Service
GEW	Ground Electronic Warfare
H&HS	Headquarters and Headquarters Squadron
H&S BN	Headquarters and Service Battalion
HC	Helicopter Coordinator
HC(A)	Helicopter Coordinator (Airborne)
HDC	Helicopter Direction Center
HEALT	Helicopter Availability and Loading Table
HELO	Helicopter
HF	High Frequency
HLSC	Helicopter Logistics Support Center

HMA	Marine Attack Helicopter Squadron
HMH	Marine Heavy Helicopter Squadron
HML	Marine Light Helicopter Squadron
HMM	Marine Medium Helicopter Squadron
HOTPHOTOREP	Hot Photographic Interpretation Report
HQSOC	Headquarters & Services Operations Center
HST	Helicopter Support Team
HUMINT	Human Intelligence
HUMINTE	Human Intelligence Element
I&W	Indications and Warning
IAC	Intelligence Analysis Center
IAS	Intelligence Analysis System
IBM	International Business Machines
IDASC	Improved Direct Air Support Center
IF	Interrogation Facility
II	Imagery Interpretation
IMINT	Imagery Intelligence
INFO	Information
INTELL/INTEL	Intelligence
INTERCOM	Intercommunications System
IP	Imagery Processing
IPIR	Initial Photo Interpretation Report
ISA	Intelligence Systems Architecture
ITAWDS	Integrated Tactical Amphibious Warfare Data System
ITOC	Interrogation/Translation Operations Center
ITOC/IF	Interrogation/Translation Operations Center/Interrogation Facility
JCS	Joint Chiefs of Staff
JIC	Joint Intelligence Center
JILES	Joint Intelligence Liaison Element System
JOC	Joint Operations Center

JSCC	Joint Systems Control Center
JSIPS	Joint Source Imagery Processing System
JTARS	Joint Tactical Airborne Reconnaissance System
JTER	Joint Tactical ELINT Reports
JTF	Joint Task Force
JTIDS	Joint Tactical Information Distribution System
JTIR	Joint Tactical Inflight Reports
L-SPRAC	Long Range Special Reporting and Analysis Circuit
LAI	Light Armored Infantry
LAI BN	Light Armored Infantry Battalion
LAI PLT	Light Armored Infantry Platoon
LCC	Amphibious Command Ship
LEASAT	Leased Satellite
LF	Landing Force
LFARTYO	LF Artillery Officer
LFFSO	LF Fire Support Officer
LFOC	Landing Force Operations Center
LFSP	Landing Force Support Party
LFTIO	LF Target Information Officer
LHA	Amphibious Assault Ship (General Purpose)
LHD	Amphibious Assault Ship (Multipurpose)
LPH	Amphibious Assault Ship (Helicopter)
LSOC	Landing Support Operations Center
LZ	Landing Zone
LZCP	Landing Zone Control Party
MACCS	Marine Air Command and Control System
MACG	Marine Air Control Group
MAFC	MAGTF All-Source Fusion Center
MAGIS	Marine Air-Ground Intelligence System
MAGTF	Marine Air-Ground Task Force
MAGTF CE	Marine Air-Ground Task Force Command Element

MASS	Marine Air Support Squadron
MAW	Marine Aircraft Wing
MC&G	Mapping, Charting and Geodetic
MCC	Movement Coordination Center
MCRDAC	Marine Corps Research, Development, and Acquisition Command
MCSF	Mobile Cryptologic Support Facility
MEB	Marine Expeditionary Brigade
MED	Medical
MED INTEL	Medical Intelligence
MED BN	Medical Battalion
MED SEC	Medical Section
MEF	Marine Expeditionary Force
MEP	Mobile Electric Power
MEU	Marine Expeditionary Unit
MEWSS	Mobile Electronic Warfare Support System
MGMT	Management
MIFASS	Marine Integrated Fire and Air Support System
MIIDS-IDB	Military Intelligence Integrated Data System - Integrated Data Base
MIJI	Meaconing, Intrusion, Jamming, and Interference
MIPIR	Multimission Imagery Photographic Interpretation Report
MIRC	MAGTF Interface Requirements Concept
MISREP	Mission Report
MOC	Maintenance Operations Center
MORTREP	Mortar Shelling Report
MP CO	Military Police Company
MS	Master Station (PLRS)
MSOC	Medical Services Operations Center
MSSG	MEU Service Support Group
MSTR	Master
MTACCS	Marine Tactical Command and Control System
MT BN	Motor Transport Battalion
MTOC	Motor Transport Operations Center

MUTE	Multiplexed Unit for Transmission Elimination
MWCS	Marine Wing Communications Squadron
MWSG	Marine Wing Support Group
NAO	Naval Aviation Observer
NAVCAMS	Naval Communications Area Master Station
NAVCOMMSTA	Naval Communications Station
NAVMACS	Naval Modular Automated Communications System
NAVSTAR GPS	Navigation System Using Timing and Ranging/Global Positioning System
NBC	Nuclear, Biological, and Chemical
NCOIC	Noncommissioned Officer in Charge
NCR	National Cryptologic Representatives
NCW	Non-Codeword
NCW TACREPS	Non-Codeword Tactical Reports
NGFCO	Naval Gunfire Control Officer
NGFSO	Naval Gunfire Support Officer
NIS	National Input Segment
NMCC	National Military Command Center
NMIST	National Military Intelligence Support Terminal
NOD	Night Observation Device
NSA	National Security Agency
NSFS	Naval Surface Fire Support
NSSC	Naval Sea Systems Command
NTCOC	Naval Telecommunications Command Operations Center
NTDS	Naval Tactical Data System
OCA	Operations, Control, and Analysis
OCAC	Operations, Control and Analysis Center
OFF	Office/Officer
OH	Operational Handbook
OIC	Officer In Charge
OOB	Order of Battle

OPS	Operations
OPSUM	Operations Summary
OPTASK	Operational Task
ORESTES	Teletypewriter Subsystem of Navy UHF SATCOM System
OSC	Operational System Control
OSCC	Operational Systems Control Center
PAR	Processing, Analysis and Reporting
PLRS	Position Location Reporting System
PLT	Platoon
POST	Prototype Ocean Surveillance Terminal
POW	Prisoner of War
PUB	Publication
RADBN	Radio Battalion
RADBNE	Radio Battalion Element
RDG	Radar Display Group
RECCEXREP	Reconnaissance Exploitation Report
RECON	Reconnaissance
RII	Request for Intelligence Information
RPV	Remotely Piloted Vehicle
RPVE	Remotely Piloted Vehicle Element
RPV GS	RPV Ground Control Station
RQMTS	Requirements
RRT	Radio Reconnaissance Team
S/EWCC	Signals Intelligence/Electronic Warfare Coordination Center
SAAWC	Sector Antiair Warfare Coordinator
SAC	Supporting Arms Coordinator
SACC	Supporting Arms Coordination Center
SALUTE	Size, Activity, Location, Unit, Time, Equipment
SAM	Surface-To-Air Missile
SAR	Search and Rescue

SARC	Surveillance and Reconnaissance Center
SAS	Single/Secure Audio System
SASS	Supporting Arms Special Staff
SASSY	Supported Activities Supply Support System
SATCOM	Satellite Communications
SCAMP	Sensor Control and Management Platoon
SCAMPE	Sensor Control and Management Platoon Element
SCAMP SMS	SCAMP Sensor Monitor System
SCC	Ship's Communications Center (GENSER)
SCIF	Sensitive Compartmented Information Facility
SEMS	Standard Embarkation Management System
SENREP	Sensor Report
SERE	Survival, Evasion, Resistance, and Escape
SHELREP	Shelling Report
SHF	Super High Frequency
SI	Special Intelligence
SIDS	Secondary Imagery Dissemination System
SIGINT	Signal Intelligence
SIGINT/EW	Signal Intelligence/Electronic Warfare
SIGSEC	Signal Security
SIO	Special Intelligence Officer
SITREP	Situation Report
SMIC	Shipboard MTACCS Interface Controller
SMU	SASSY Management Unit
SOC	Supply Operations Center
SOF	Special Operations Force
SOP	Standard Operating Procedure
SOTA	SIGINT Operational Tasking Authority
SPINTCOMM	Special Intelligence Communications
SPRAC	Special Reporting and Analysis Circuit
SQD	Squadron
SRI	Surveillance, Reconnaissance, and Intelligence
SRIE	Surveillance, Reconnaissance, and Intelligence Element

SRIG	Surveillance, Reconnaissance, and Intelligence Group
SRIG-CC	Surveillance, Reconnaissance, and Intelligence Group Command Center
SSCC	Special Security Communication Center
SSCT	Special Security Communications Team
SSES	Ship's Signals Exploitation Space
SSO	Special Security Office/Officer
STA	Surveillance and Target Acquisition
SUPIR	Supplemental Photo Interpretation Report
SWS	Single Work Station
SYSCON	System Control
T/O	Table of Organization
T-SCIF	Tactical Sensitive Compartmented Information Facility
TAC	Tactical Air Commander
TAC (A)	Tactical Air Coordinator (Airborne)
TACADS	Tactical Advisories
TACC	Tactical Air Command Center
TACC (A)	Tactical Air Command Center (Afloat)
TACELINT	Tactical Electronic Intelligence
TACINTEL	Tactical Intelligence
TACLOG	Tactical Logistics
TACLOG GP	Tactical Logistical Group
TACP	Tactical Air Control Party
TACREP	Tactical Report
TADC	Tactical Air Direction Center
TADIX	Tactical Data Information Exchange
TAF	Tactical Area File
TAO	Tactical Air Operations
TAOC	Tactical Air Operations Center
TAOM	Tactical Air Operations Module
TARBUL	Target Bulletin
TAREP	Target Report

TCAC	Technical Control and Analysis Center
TCC	Tactical Communications Center/Central
TCO	Tactical Combat Operations
TECH	Technical/Technician
TECHCONFACS	Technical Control Facilities
TERPES	Tactical Electronic Reconnaissance Processing and Evaluation System
TFCC/FP	Tactical Flag Command Center/Flag Plot
TGTINTELO	Target Intelligence Officer
TIC	Target Information Center
TIC	Technical Interface Concept (superseded by MIRC)
TIPS	Tactical Intelligence Processing System
TIS	Tactical Input Segment
TMS	Teams
TOPHUNTER	Same as TPCS
TOPO	Topographic
TPCS	Team Portable Communications Intelligence System
TPE	Topographic Platoon Element
TRANSEC	Transmission Security
TRE	Tactical Receive Equipment
TRI-MEF	Three-Marine Expeditionary Forces
TRSS	Tactical Remote Sensor System
TVTS	Tactical Video Transmission System
UHF	Ultra High Frequency
USA	United States Army
USAF	United States Air Force
UU	User Unit (PLRS)
VHF	Very High Frequency
VMA	Marine Attack Squadron
VMAQ	Marine Tactical Electronic Warfare Squadron
VMFP	Marine Tactical Reconnaissance Squadron

VMGR

Marine Aerial Refueling Transport Squadron

WS

Workstation

WWIMS

Worldwide Warning Indicator Monitoring System

WWMCCS

Worldwide Military Command and Control System